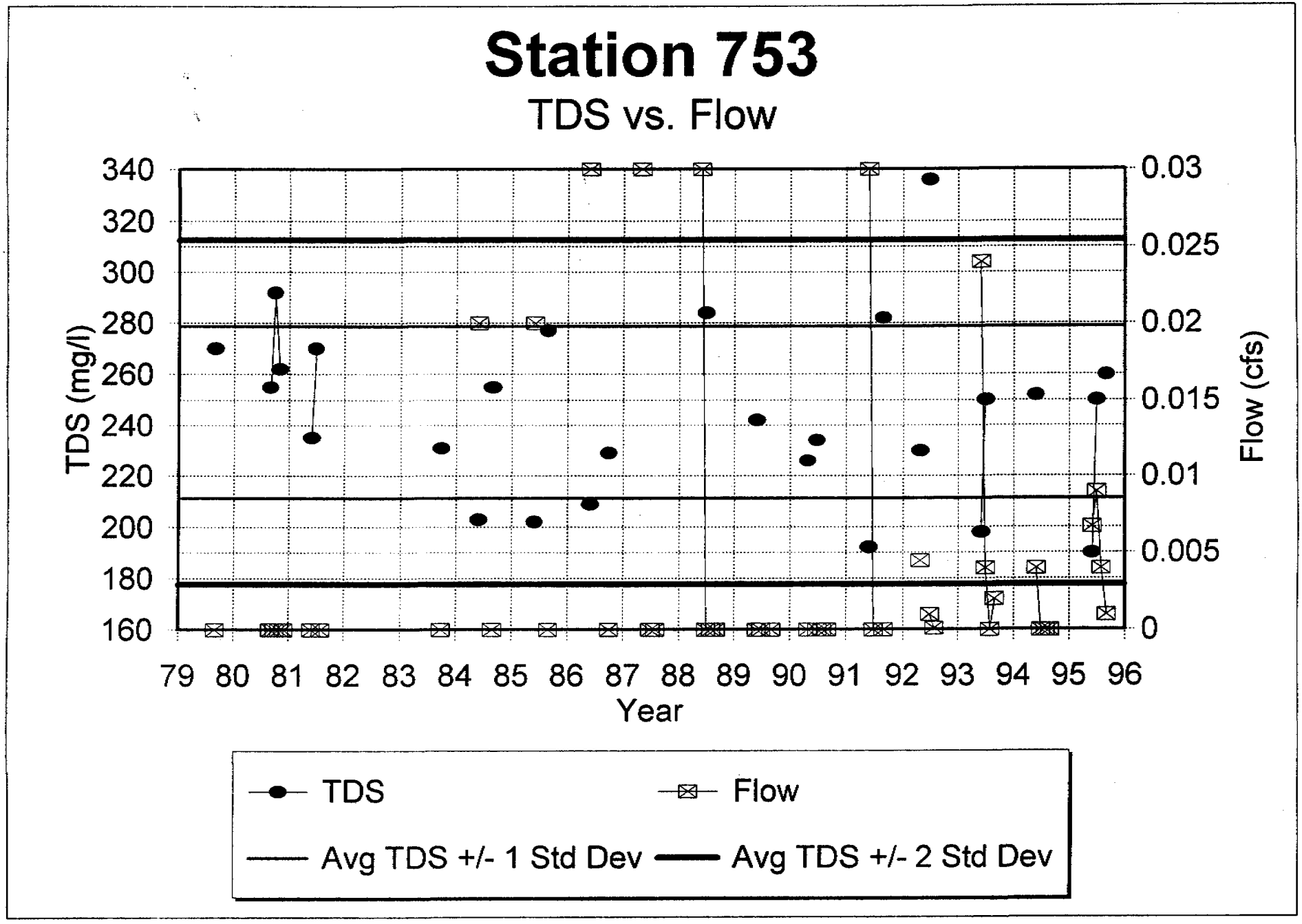
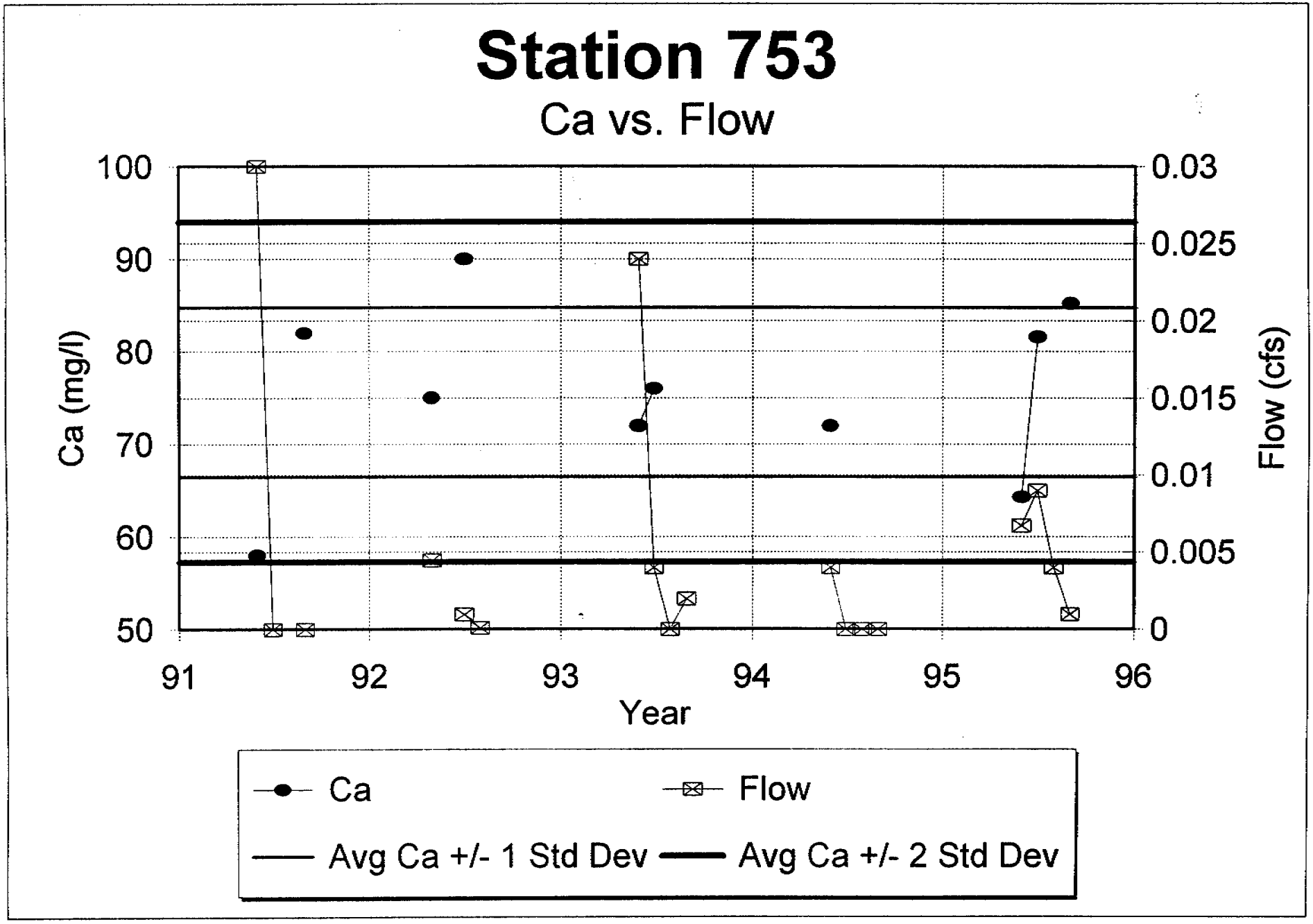
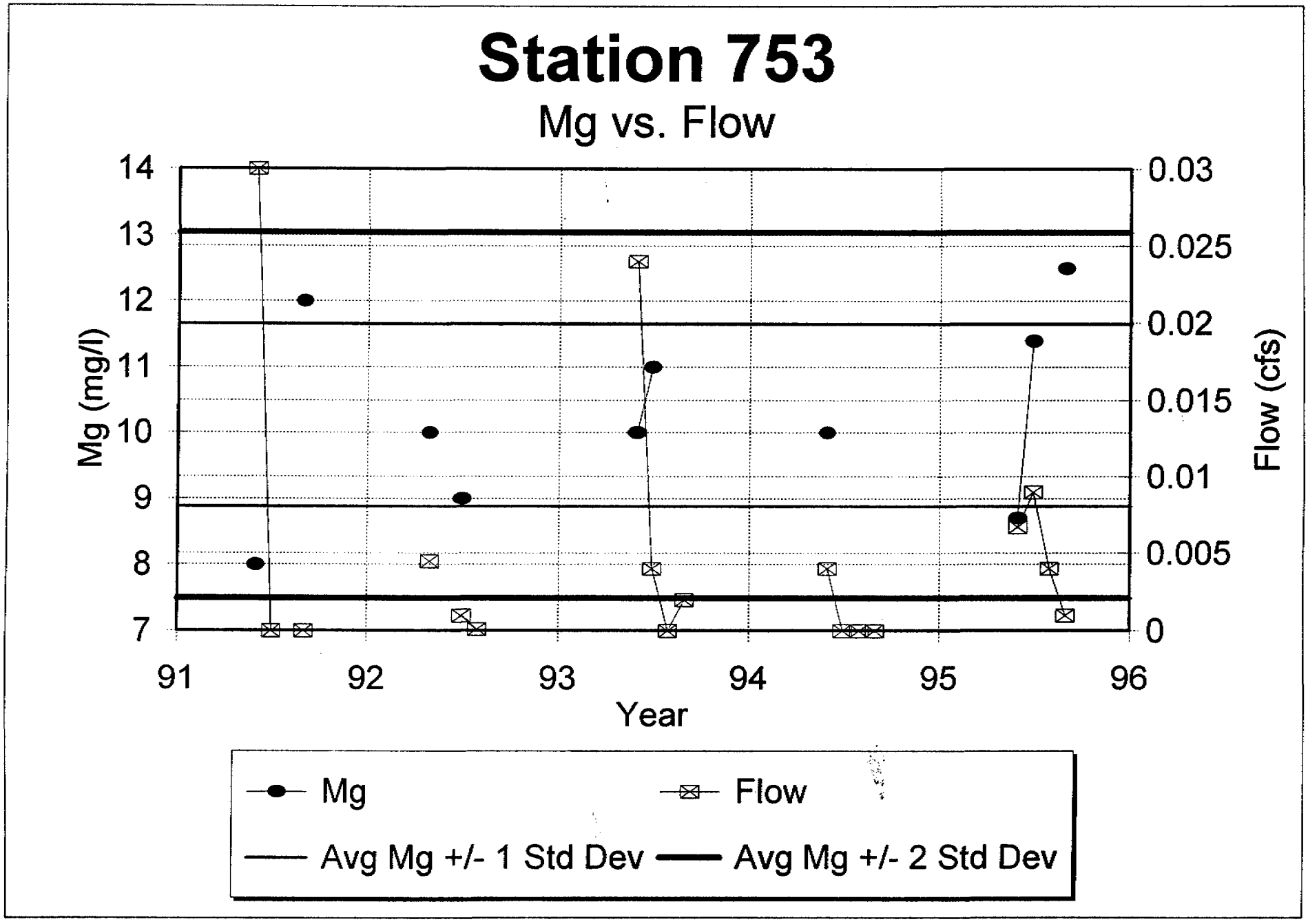
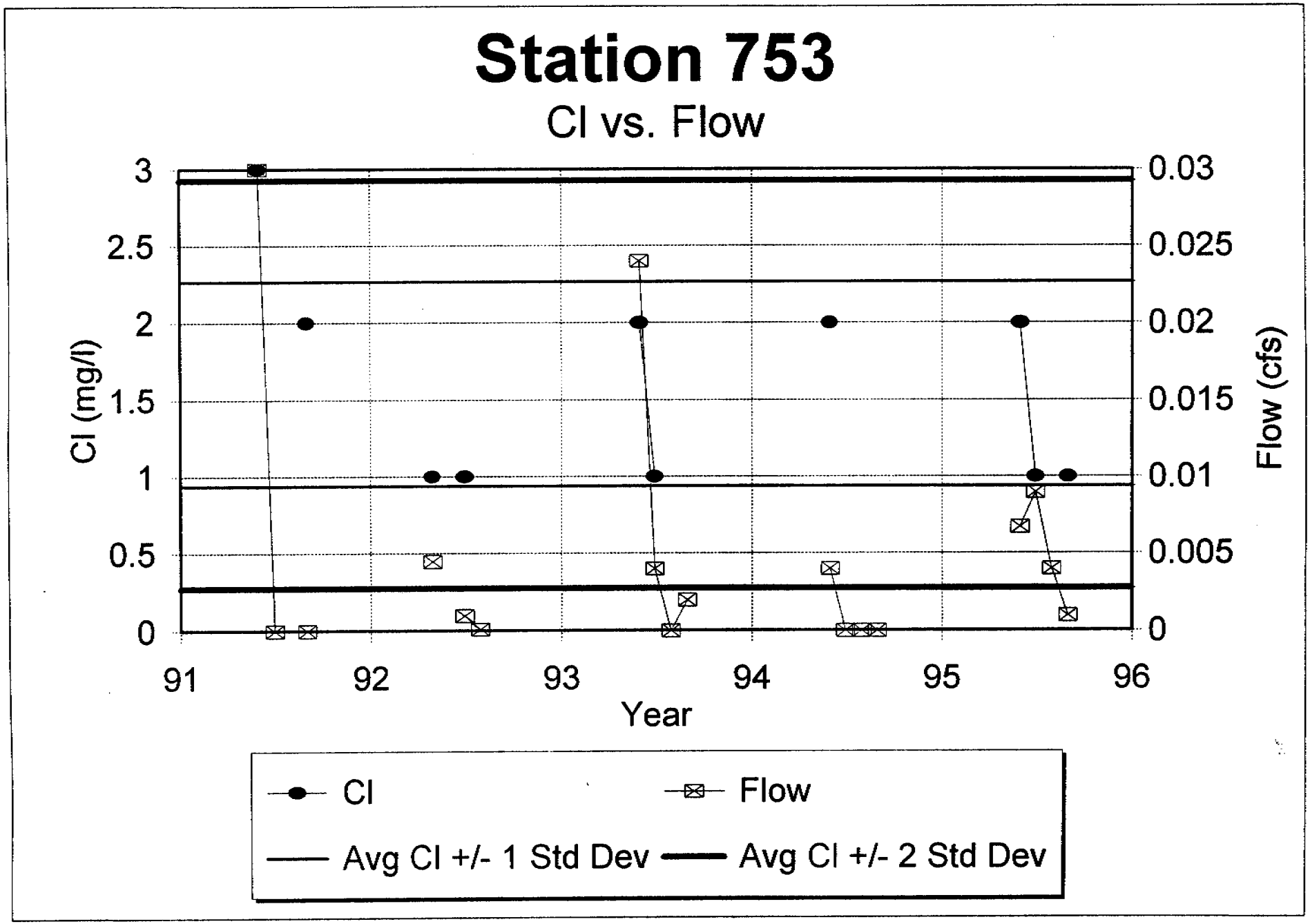
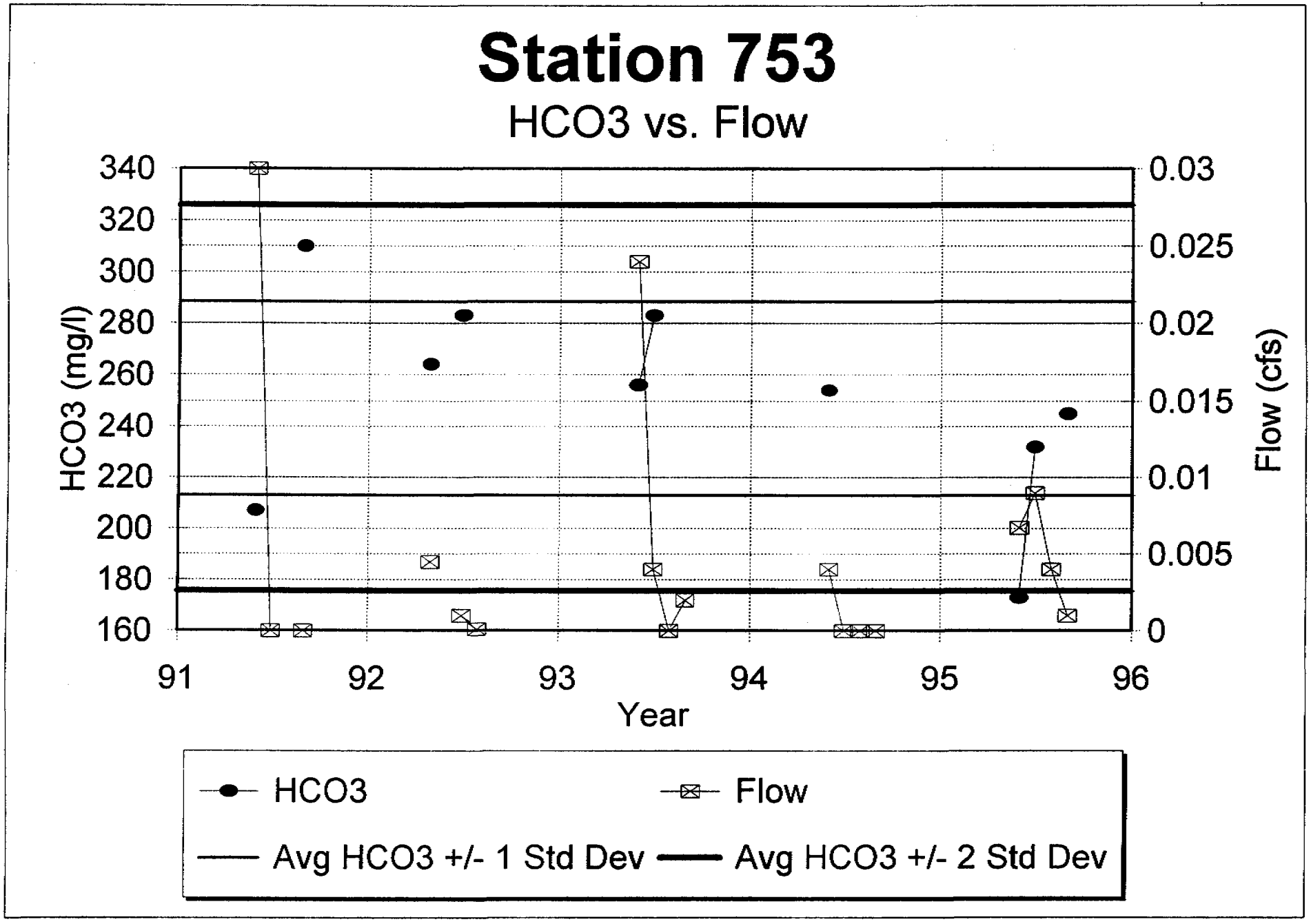
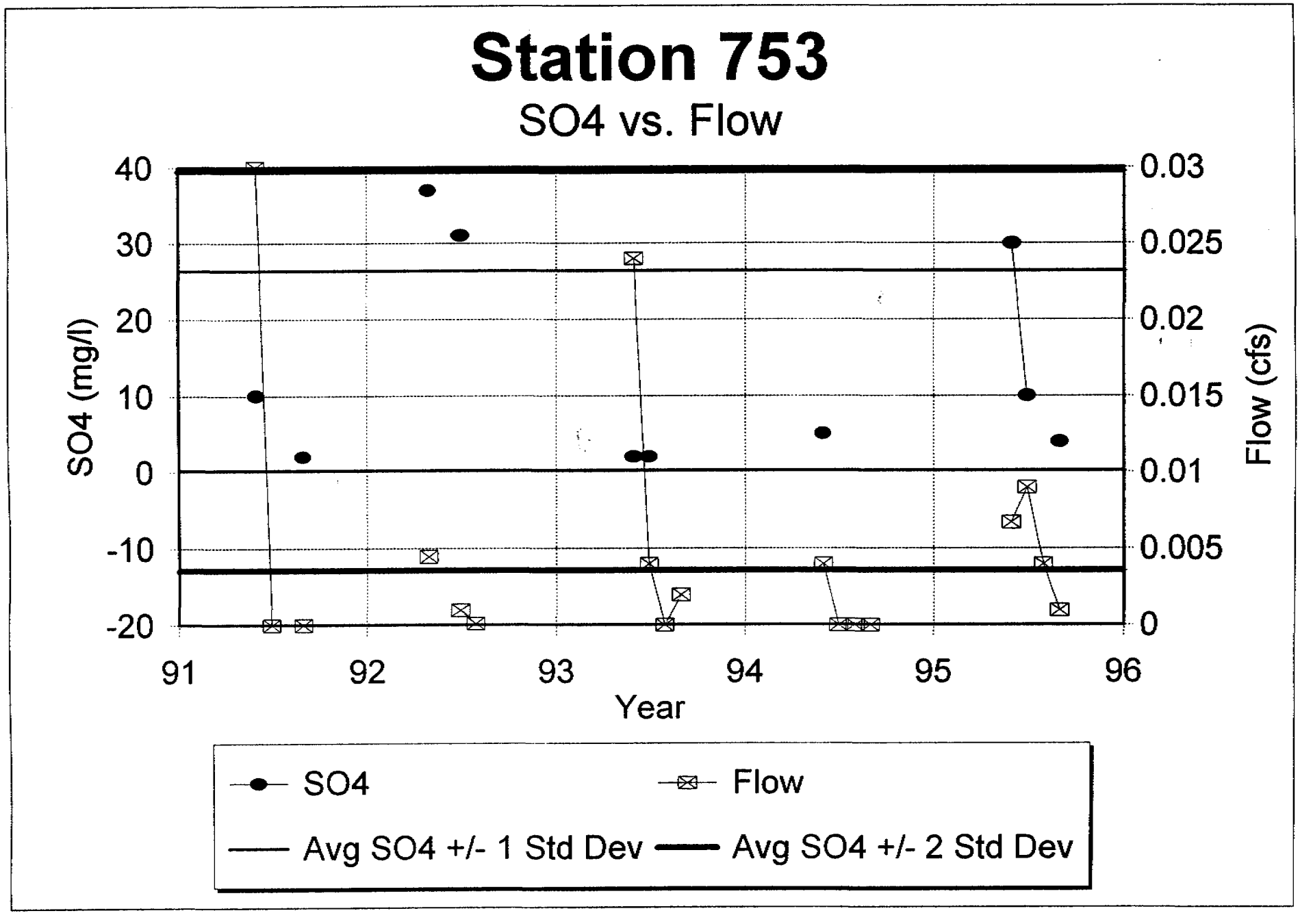

Station 753
TDS vs. Flow
TDS (mg/l)
340
320
300
280
260
240
220
200
180
160
Flow (cfs)
0.03
0.025
0.02
0.015
0.01
0.005
0
79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 753
Ca vs. Flow
100
90
80
70
60
50
Ca (mg/l)
0.03
0.025
0.02
0.015
0.01
0.005
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 753
Mg vs. Flow
Mg (mg/l)
14
13
12
11
10
9
8
7
0.03
0.025
0.02
0.015
0.01
0.005
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 753
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
3
2.5
2
1.5
1
0.5
0
0.03
0.025
0.02
0.015
0.01
0.005
0
91
92
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 753
HCO3 vs. Flow
HCO3 (mg/l)
340
320
300
280
260
240
220
200
180
160
Flow (cfs)
0.03
0.025
0.02
0.015
0.01
0.005
0
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 753
SO4 vs. Flow
SO4 (mg/l)
40
30
20
10
0
-10
-20
Flow (cfs)
0.03
0.025
0.02
0.015
0.01
0.005
0
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: 971 | Property: Star Point | Location: 1250' N 2000' W of SE corn. Sec 12, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9640

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/05/89	0																				NO FLOW
Jul-89	07/11/89	0																				NO FLOW
Aug-89	08/22/89	0																				NO FLOW
Sep-89	09/15/89																					NO FLOW
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0	7.2	170	4	124			102	134		1	2	36	3	1	2		0.06	0.11	< 0.01	
Jun-90																						
Jul-90	07/07/90	0																				NO FLOW
Aug-90	08/22/90	0																				NO FLOW
Sep-90	09/24/90	0																				NO FLOW
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/12/91	0																				NO FLOW
Jul-91	07/15/91	0	7	420	9	242			234	285	0	2	2	82	7	2	2		0.06	0.09	0.02	
Aug-91																						
Sep-91	09/17/91	0																				NO FLOW
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/25/93	0																				NO FLOW
Jul-93	07/26/93	0																				NO FLOW
Aug-93	08/18/93	0																				NO FLOW
Sep-93	09/27/93	0																				NO FLOW
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/09/94	0																				NO FLOW
Jul-94	07/20/94	0																				NO FLOW
Aug-94	08/31/94	0																				NO FLOW
Sep-94	09/21/94	0																				NO FLOW
Oct-94																						
Nov-94																						
Dec-94																						

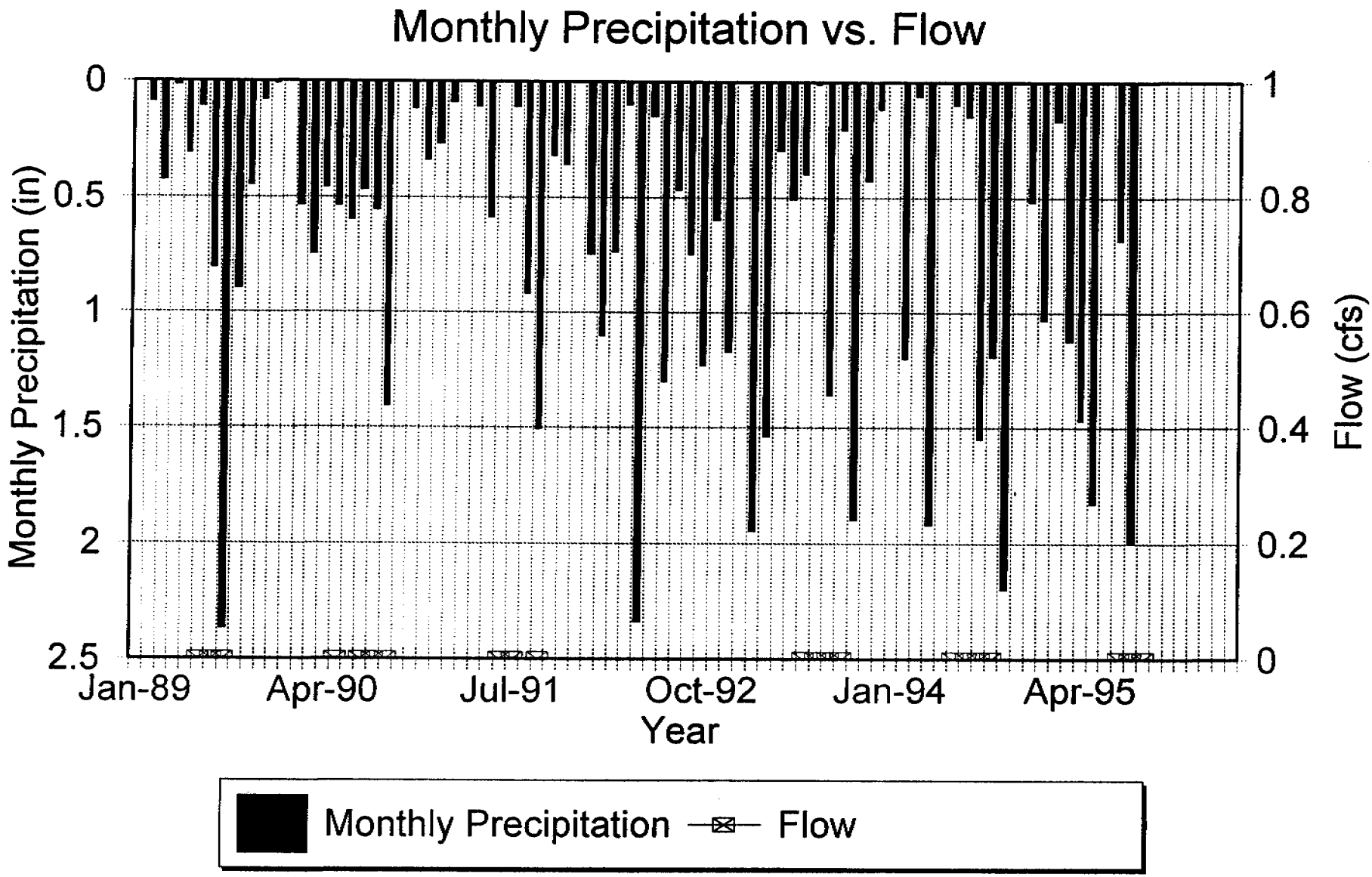
Cyprus Plateau Mining Company - Water Quality Data

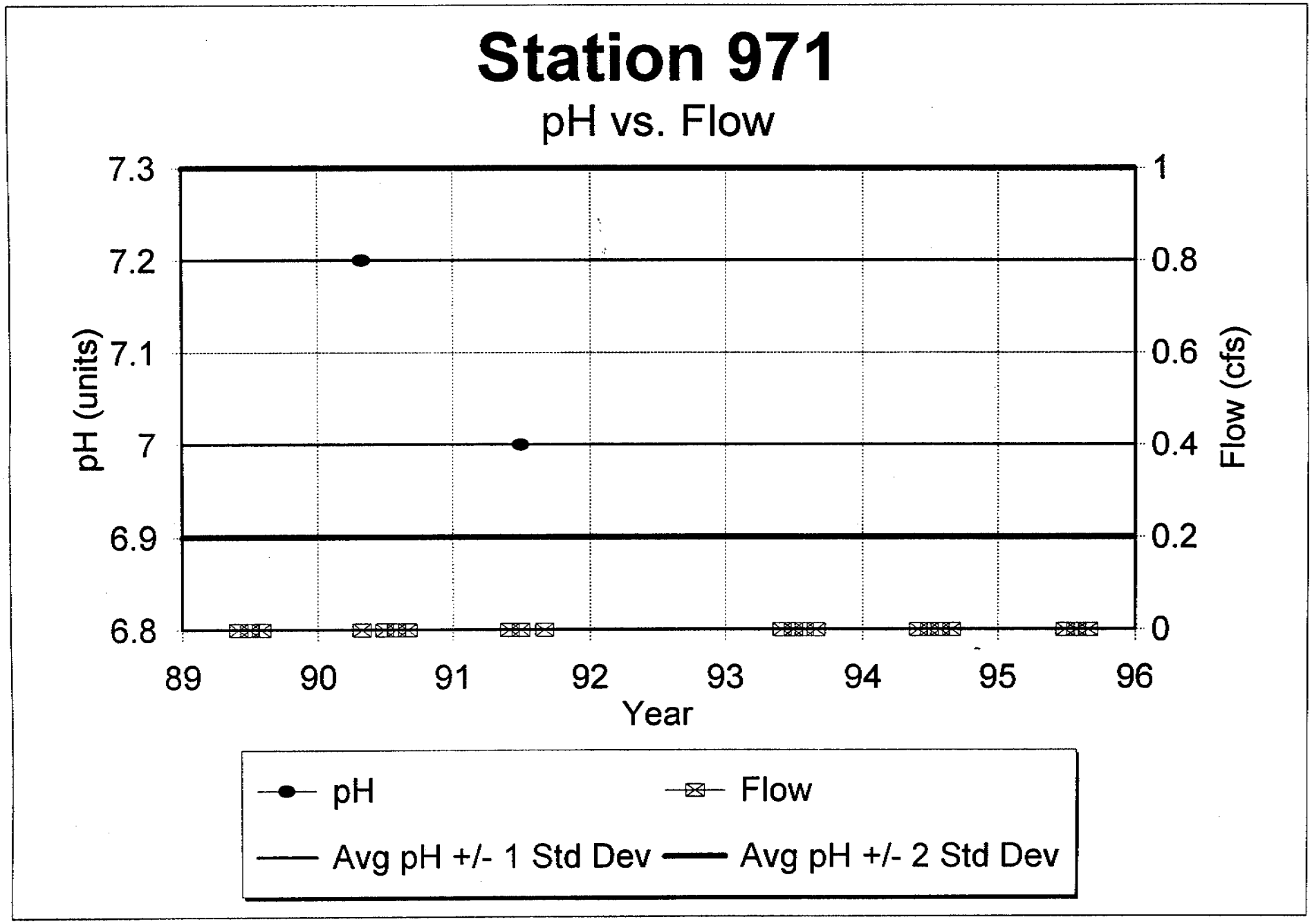
Print Date: April 25, 1996

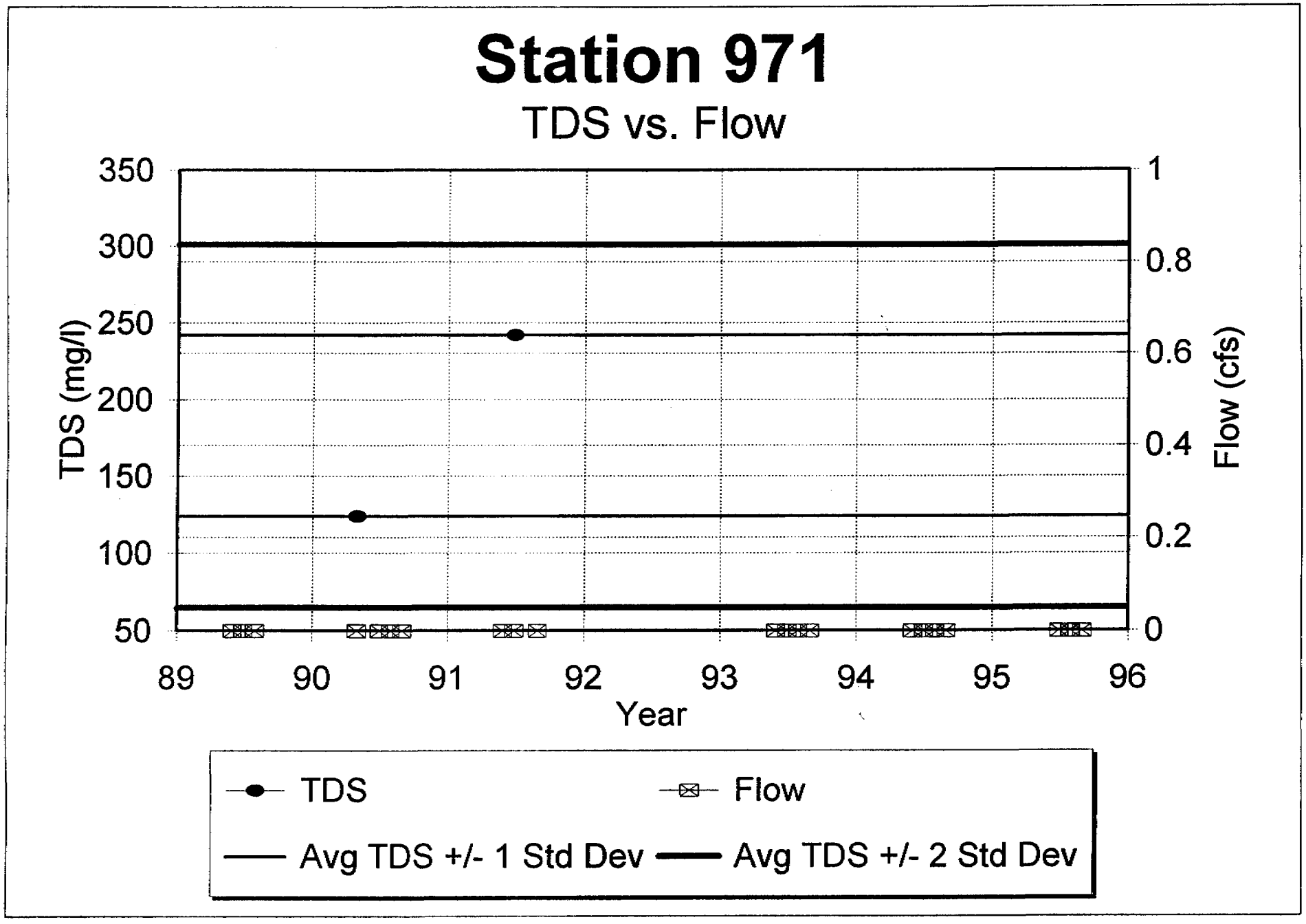
Station: 971 | Property: Star Point | Location: 1250' N 2000' W of SE corn. Sec 12, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9840

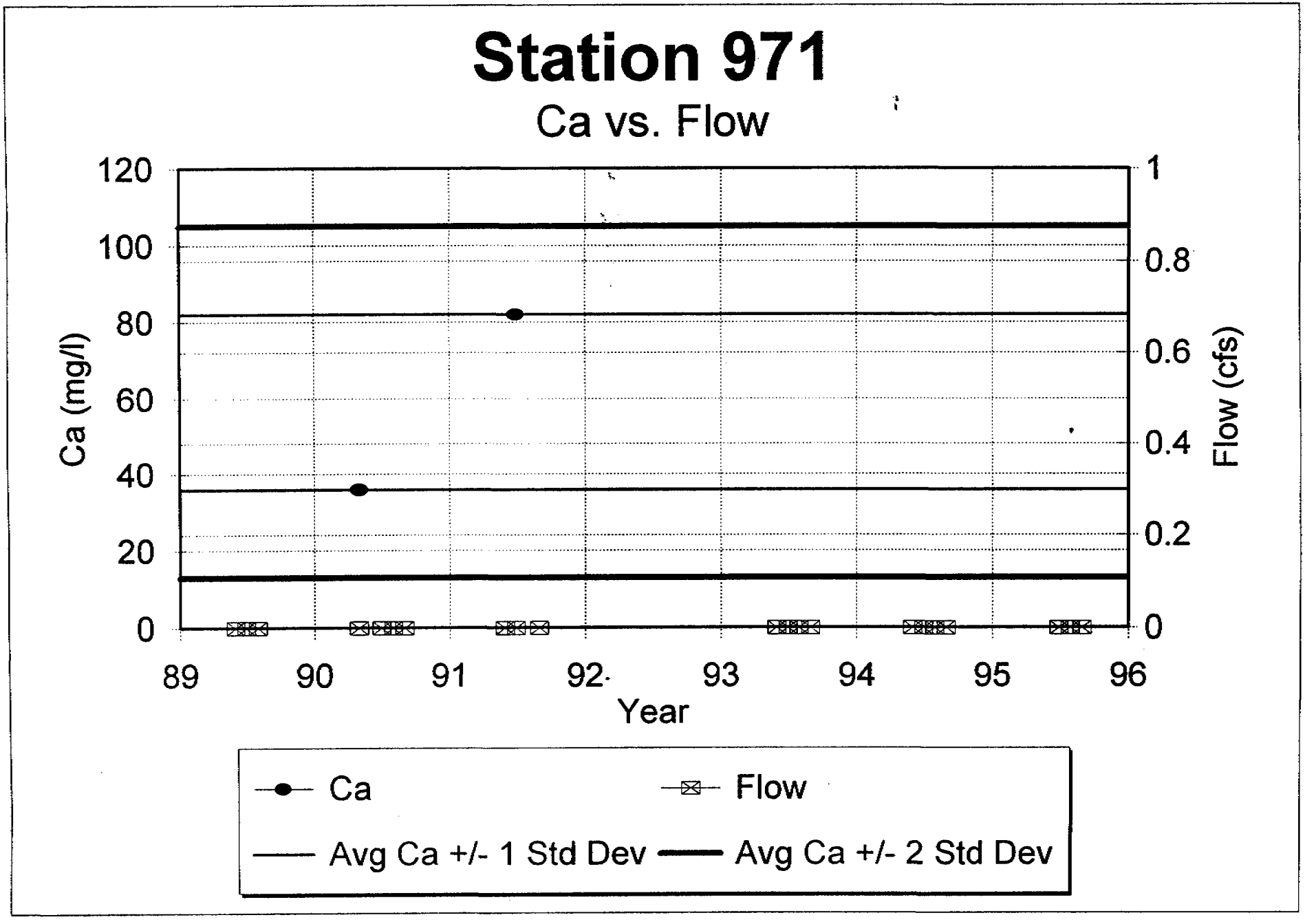
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95																					Snow covered
Jul-95	07/27/95	0																				
Aug-95	08/23/95	0																				
Sep-95	09/28/95	0																				
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		21	2	2	2	2	0	0	2	2	1	2	2	2	2	2	2	0	2	2	2	
Minimum		0	7	170	4	124	ERR	ERR	102	134	0	1	2	36	3	1	2	ERR	0.06	0.09 <	0.01	
Maximum		0	7.2	420	9	242	ERR	ERR	234	285	0	2	2	82	7	2	2	ERR	0.06	0.11 <	0.02	
Average		0	7.1	295	6.5	183	ERR	ERR	168	209.5	0	1.5	2	59	5	1.5	2	ERR	0.06	0.1 <	0.015	
Standard Deviation		0	0.1	125	2.5	59	ERR	ERR	66	75.5	0	0.5	0	23	2	0.5	0	ERR	0	0.01 <	0.005	
Avg. -1 Std. Dev.		0	7	170	4	124	ERR	ERR	102	134	0	1	2	36	3	1	2	ERR	0.06	0.09 <	0.01	
Avg. +1 Std. Dev.		0	7.2	420	9	242	ERR	ERR	234	285	0	2	2	82	7	2	2	ERR	0.06	0.11 <	0.02	
Avg. -2 Std. Dev.		0	6.9	45	1.5	65	ERR	ERR	36	58.5	0	0.5	2	13	1	0.5	2	ERR	0.06	0.08 <	0.005	
Avg. +2 Std. Dev.		0	7.3	545	11.5	301	ERR	ERR	300	360.5	0	2.5	2	105	9	2.5	2	ERR	0.06	0.12 <	0.025	

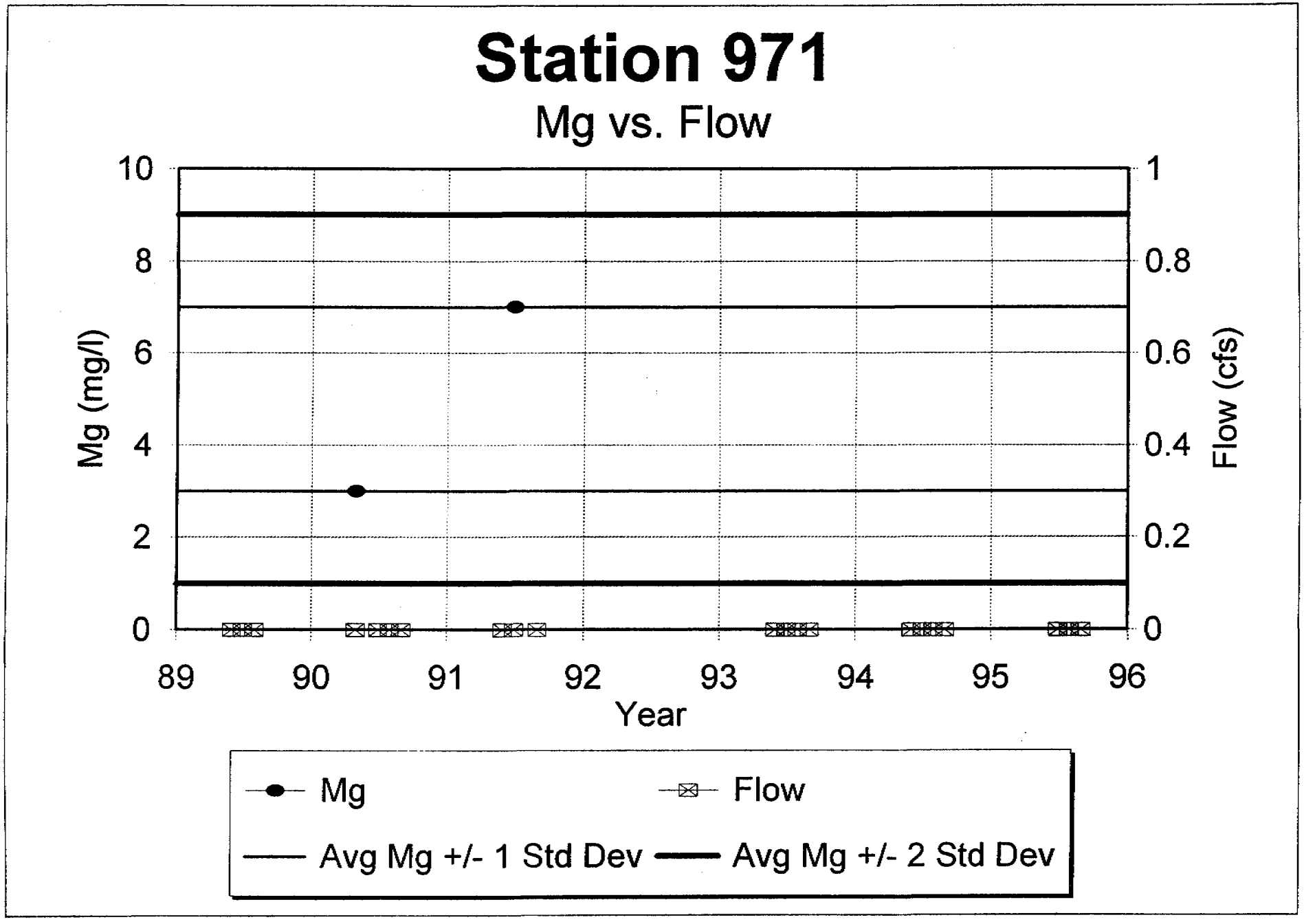
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

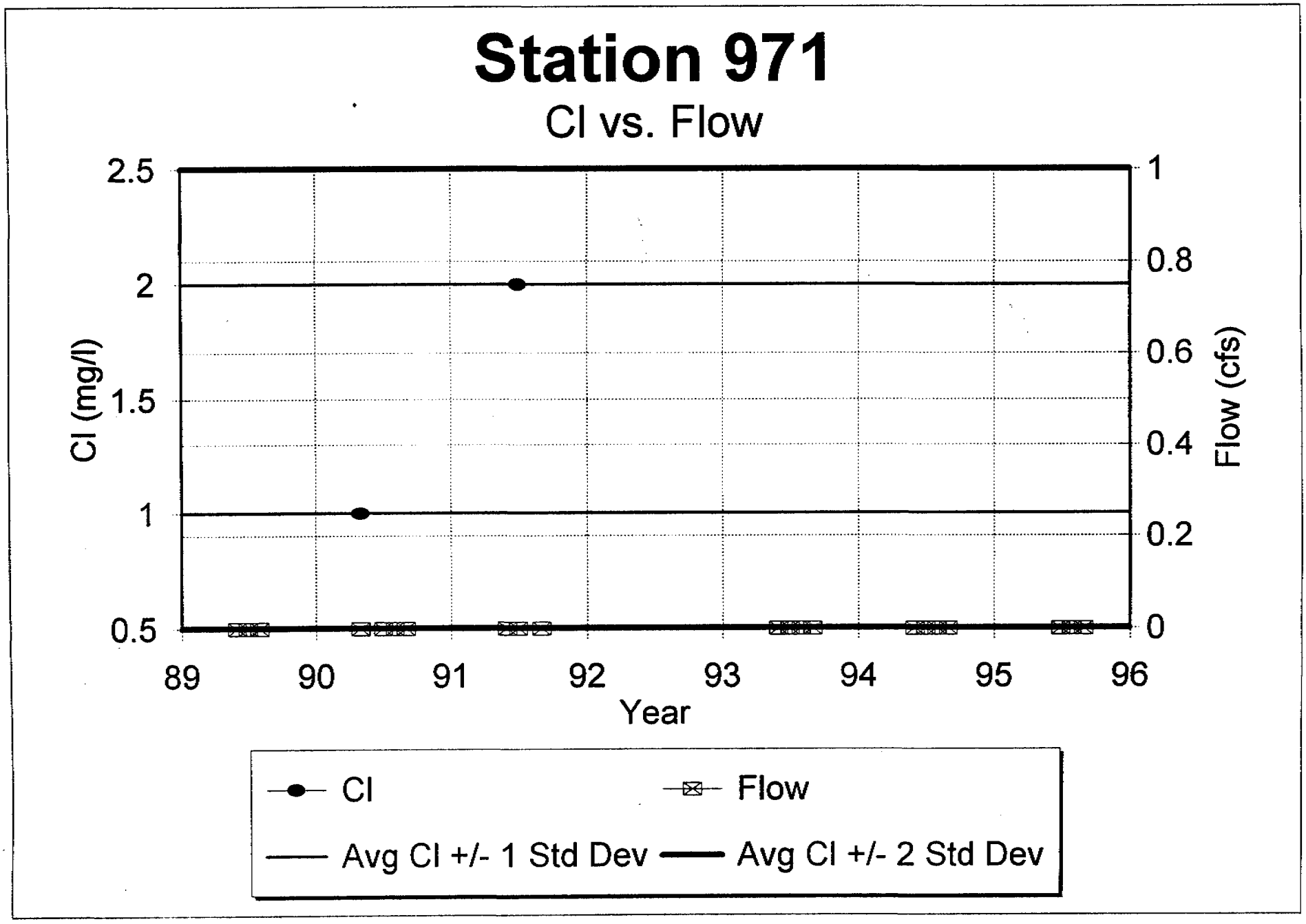

Station 971
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
Jan-89
Apr-90
Jul-91
Oct-92
Jan-94
Apr-95
Year
Monthly Precipitation
Flow

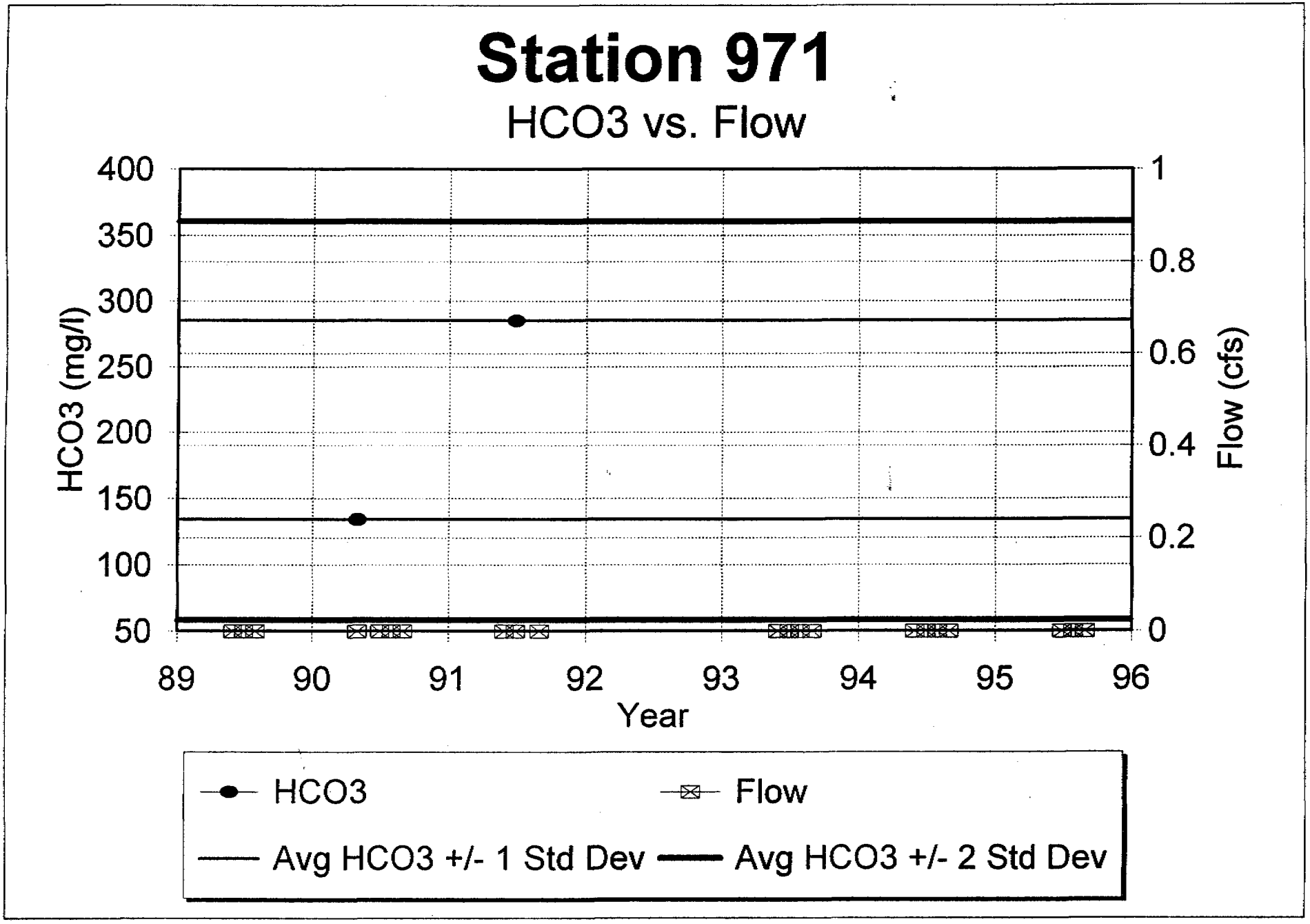

Station 971
pH vs. Flow
7.3
7.2
7.1
7
6.9
6.8
pH (units)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
89
90
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

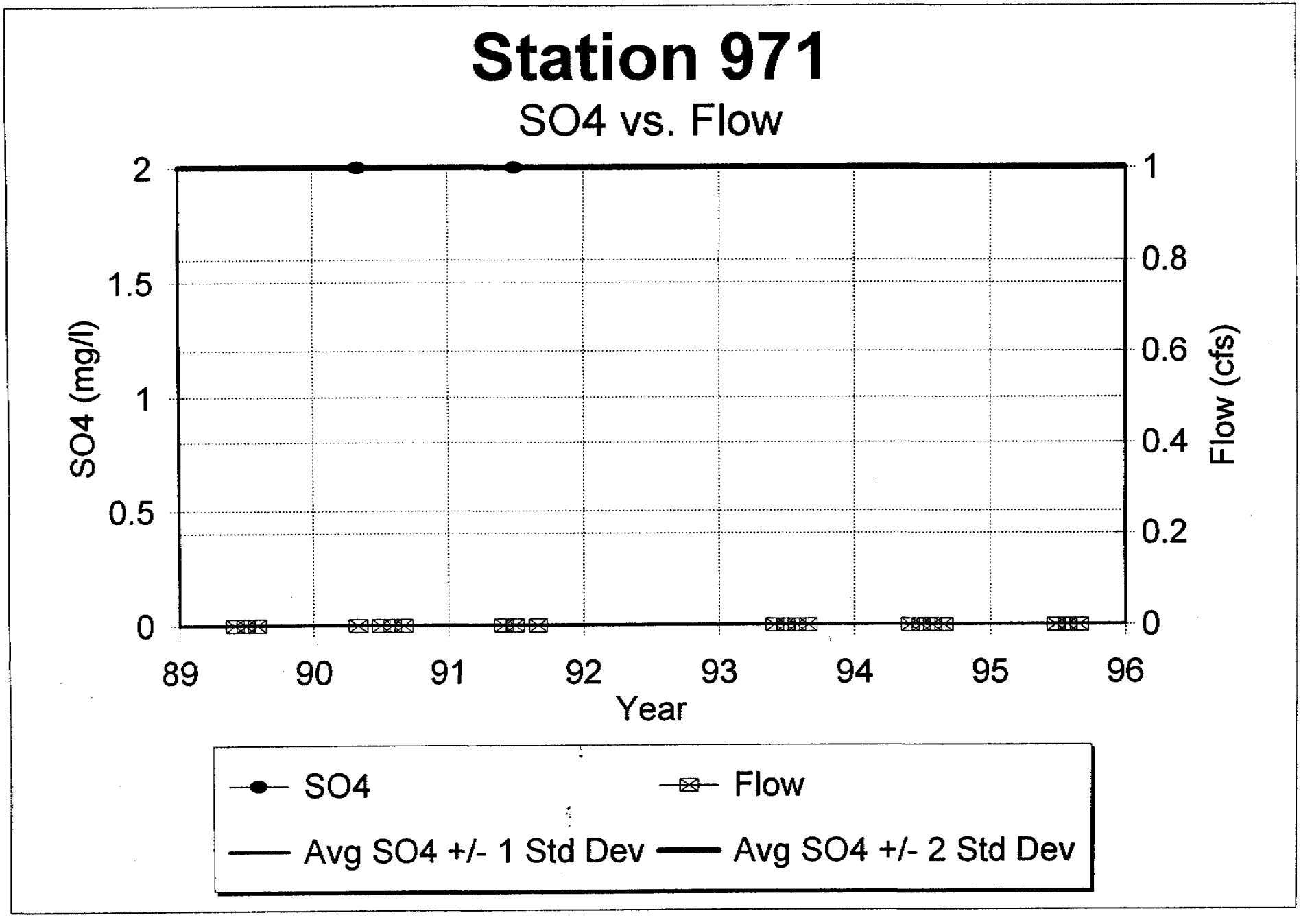

Station 971
TDS vs. Flow
TDS (mg/l)
350
300
250
200
150
100
50
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 971
Ca vs. Flow
120
100
80
60
40
20
0
Ca (mg/l)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
89
90
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 971
Mg vs. Flow
Mg (mg/l)
Flow (cfs)
Year
10
8
6
4
2
0
1
0.8
0.6
0.4
0.2
0
89
90
91
92
93
94
95
96
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 971
Cl vs. Flow
2.5
2
1.5
1
0.5
Cl (mg/l)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
89
90
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 971
HCO3 vs. Flow
HCO3 (mg/l)
400
350
300
250
200
150
100
50
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
89
90
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 971
SO4 vs. Flow
SO4 (mg/l)
2
1.5
1
0.5
0
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
89
90
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: 978 | Property: Star Point | Location: 2500' N 1375' W of SE corn. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9925

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-84																							
Feb-84																							
Mar-84																							
Apr-84																							
May-84																							
Jun-84	06/22/84	0.02				216																	
Jul-84																							
Aug-84																							
Sep-84																							
Oct-84																							
Nov-84																							
Dec-84																							
Jan-85																							
Feb-85																							
Mar-85																							
Apr-85																							
May-85																							
Jun-85																							
Jul-85																							
Aug-85																							
Sep-85																							
Oct-85																							
Nov-85																							
Dec-85																							
Jan-86																							
Feb-86																							
Mar-86																							
Apr-86																							
May-86																							
Jun-86																							
Jul-86																							
Aug-86																							
Sep-86																							
Oct-86	10/10/86	0.01				236																	
Nov-86																							
Dec-86																							
Jan-87																							
Feb-87																							
Mar-87																							
Apr-87																							
May-87	05/19/87	0.15				226																	
Jun-87																							
Jul-87	07/20/87	0.33				182																	
Aug-87	08/12/87	0.02				242																	
Sep-87	09/22/87	0				230																	
Oct-87																							
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88	06/01/88	0.13																					
Jul-88																							
Aug-88	08/19/88	0.01																					
Sep-88	9/88/5	0.01				244																	
Oct-88																							
Nov-88																							
Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89	06/06/89	0.03				228																	
Jul-89	07/11/89	0.01				262																	
Aug-89	08/22/89	0																					
Sep-89	09/15/89	0				248																	
Oct-89																							
Nov-89																							
Dec-89																							

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 2, 1996

Station: 978 | Property: Star Point | Location: 2500' N 1375' W of SE corn. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9925

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0.05				258																
Jun-90																						
Jul-90	07/02/90	0.02				232																
Aug-90	08/30/90	0.01																				
Sep-90																						
Oct-90	10/03/90	0				250																
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/12/91	0.11	7.2	510	3	308			223	234	10	3	21	68	13 <	1	6	<	0.02 <	0.02 <	0.01	
Jul-91	07/16/91	0.02	7.1	440	6	242			234	273	0	2	6	77	10 <	1	3	<	0.02 <	0.02 <	0.01	
Aug-91																						
Sep-91	09/18/91	0.01	7.8	460	8	260			222	271	0	1	16	69	12 <	1	4		0.03	0.05 <	0.01	
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/19/92	0.0105	7.3	478	4.7	258			238	276	0	1	41	74	13	1	2	<	0.02 <	0.02		
Jun-92																						
Jul-92	07/15/92	0.017	7	44	5.9	250			203	278	0	1	2	63	11 <	1	2	<	0.02 <	0.02		
Aug-92	08/25/92	0.006	7.1	357	13.3																	
Sep-92	09/21/92	0.005	6.2	443	3.8	246			190	222	0	2	10	58	11	1	2		0.03	3.98		
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/24/93	0.093	6.2	377	5.5	202			232	264	0	2	10	73	12 <	1	2	<	0.02 <	0.02 <	0.01	
Jul-93	07/26/93	0.027	6.2	415	5.4	228			217	271	0	1	4	67	12 <	1	2	<	0.02 <	0.02 <	0.01	
Aug-93	08/17/93	0.02	6.3	400	5.7																	
Sep-93	09/28/93	0.009	6.3	413	6.4	226			200	234	0	2	8	62	11 <	1	2	<	0.02	0.03 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/20/94	0.034	7.4	484	3.7	232			238	285	0	1	8	74	13 <	1	2	<	0.02 <	0.02 <	0.01	
Jul-94	07/19/94	0.02	7.8	412	13.9	264			224	185	7	2	69	70	12	1	3	<	0.02	0.05 <	0.01	
Aug-94	08/31/94	0.022	8.3	258	11.2																	RAIN IN A.M. = ~.10". LO
Sep-94	09/21/94	0.01	7.9	496	12.7	246			252	275	0	1	7	78	14 <	1	2		0.32	0.35	0.01	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.45	7.2	442	5	210			226	214 <	2	1 <	10	71.6	11.4	0.5	2.3	3.6	0.04 <	0.01 <	0.005	
Jul-95	07/26/95	0.026	7.3	472	5	220			237	225 <	2	1	10	74.1	12.6	0.7	2.1	1.2 <	0.01 <	0.01 <	0.005	
Aug-95	08/23/95	0.02	6.58	380	5																	Calibrated ph meter
Sep-95	09/28/95	0.018	7.3	268	6	240			236	220 <	2	2 <	4	73.1	13	0.7	1.9	4 <	0.01 <	0.01 <	0.005	
Oct-95																						
Nov-95																						
Dec-95																						

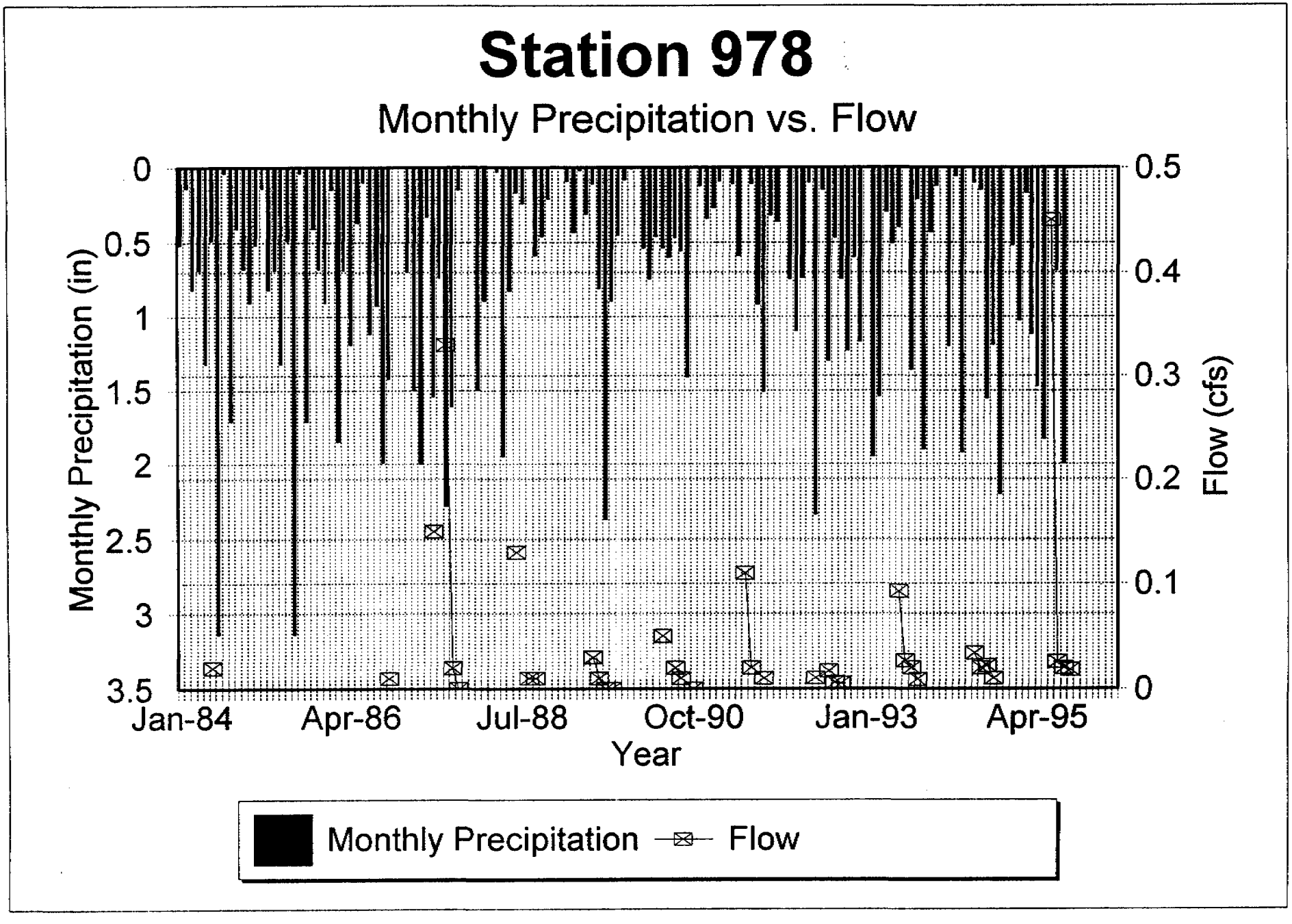
Cyprus Plateau Mining Company - Water Quality Data

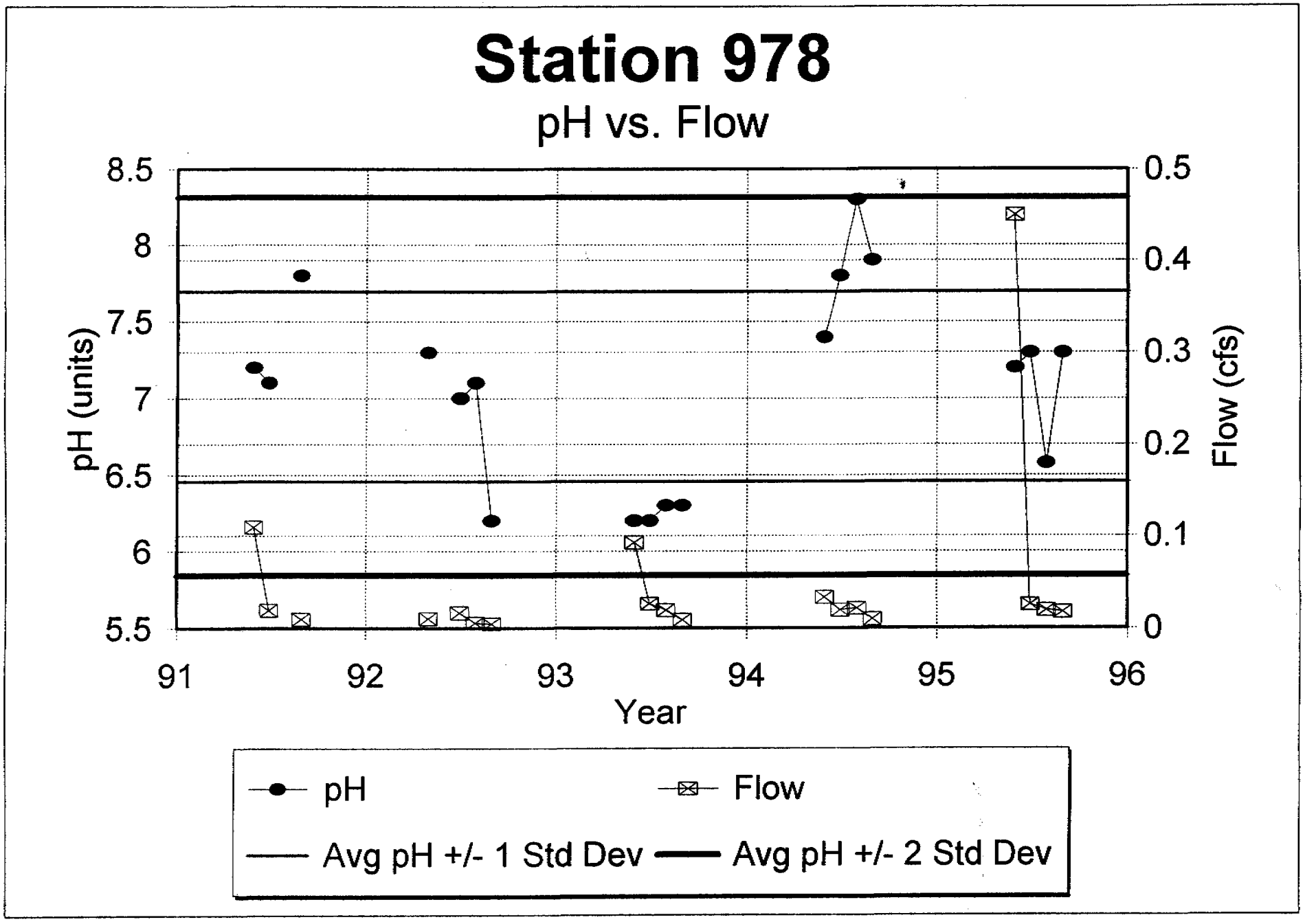
Print Date: May 2, 1996

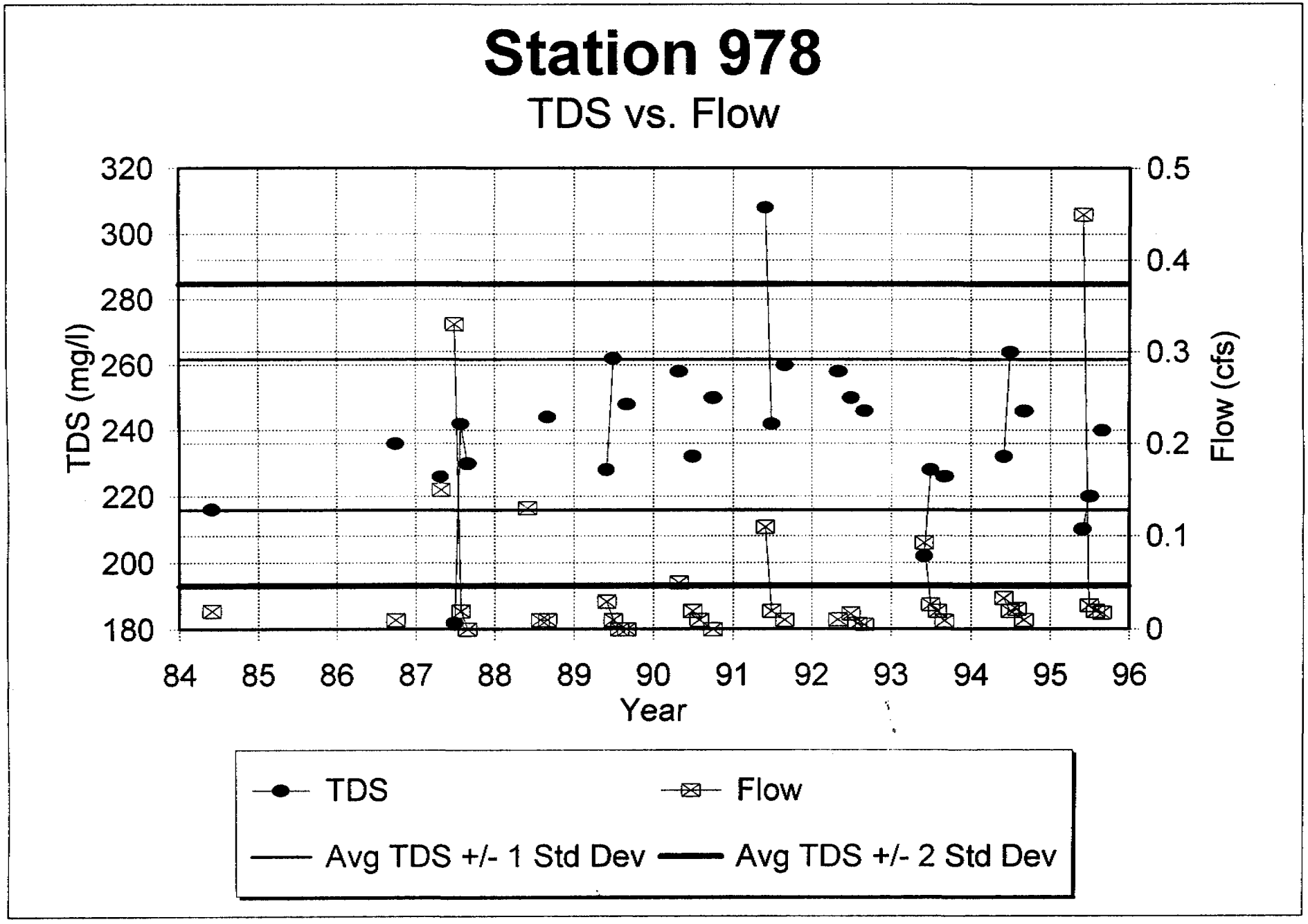
Station: 978 | Property: Star Point | Location: 2500' N 1375' W of SE corn. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9925

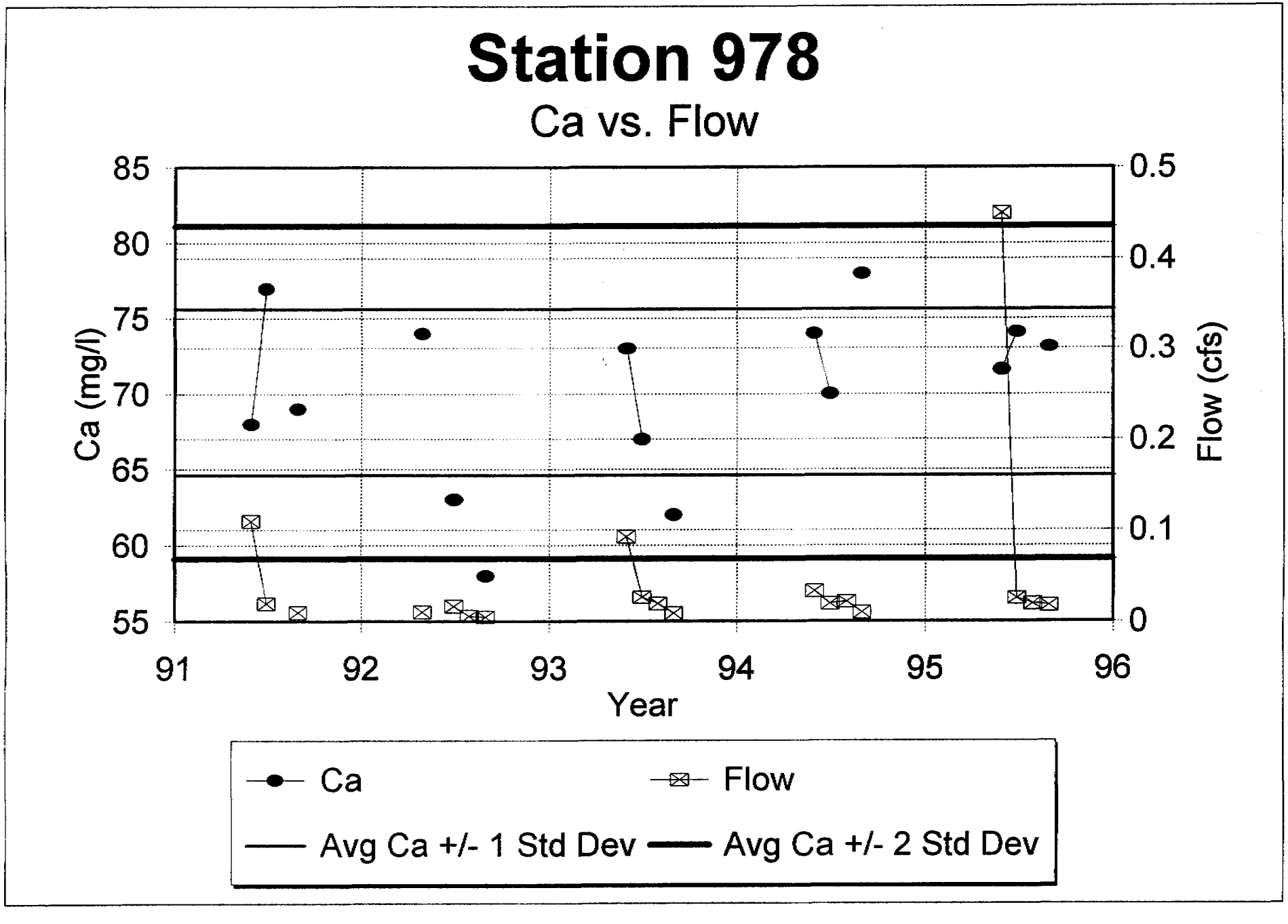
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-96																						
END DATA																						
Count		36	19	19	19	28	0	0	15	15	15	15	15	15	15	15	15	3	15	15	12	
Minimum		0	6.2	44	3	182	ERR	ERR	190	185 <	0	1 <	2	58	10 <	0.5	1.9	1.2 <	0.01 <	0.01 <	0.005	
Maximum		0.45	8.3	510	13.9	308	ERR	ERR	252	285 <	10	3 <	69	78	14 <	1	6	4 <	0.32 <	3.98 <	0.01	
Average		0.048	7.0779	397.32	6.8526	238.79	ERR	ERR	224.8	248.47 <	1.5333	1.5333 <	15.067	70.12	12.067 <	0.9267	2.5533	2.9333 <	0.0413 <	0.3087 <	0.0068	
Standard Deviation		0.0912	0.6186	106.61	3.2647	22.881	ERR	ERR	16.072	29.691 <	2.8952	0.6182 <	17.094	5.5001	1.0215 <	0.1526	1.0807	1.2365 <	0.0748 <	0.9846 <	0.0022	
Avg. -1 Std. Dev.		-0.043	6.4593	290.7	3.5879	215.91	ERR	ERR	208.73	218.78 <	-1.362	0.9151 <	-2.027	64.62	11.045 <	0.7741	1.4727	1.6969 <	-0.033 <	-0.676 <	0.0066	
Avg. +1 Std. Dev.		0.1392	7.6965	503.93	10.117	261.67	ERR	ERR	240.87	278.16 <	4.4285	2.1516 <	32.16	75.62	13.088 <	1.0793	3.634	4.1698 <	0.1162 <	1.2933 <	0.0109	
Avg. -2 Std. Dev.		-0.134	5.8407	184.09	0.3232	193.02	ERR	ERR	192.66	189.08 <	-4.257	0.2969 <	-19.12	59.12	10.024 <	0.6215	0.392	0.4804 <	-0.108 <	-1.661 <	0.0044	
Avg. +2 Std. Dev.		0.2304	8.3151	610.54	13.382	284.55	ERR	ERR	256.94	307.85 <	7.3237	2.7698 <	49.254	81.12	14.11 <	1.2319	4.7146	5.4063 <	0.191 <	2.2779 <	0.0131	

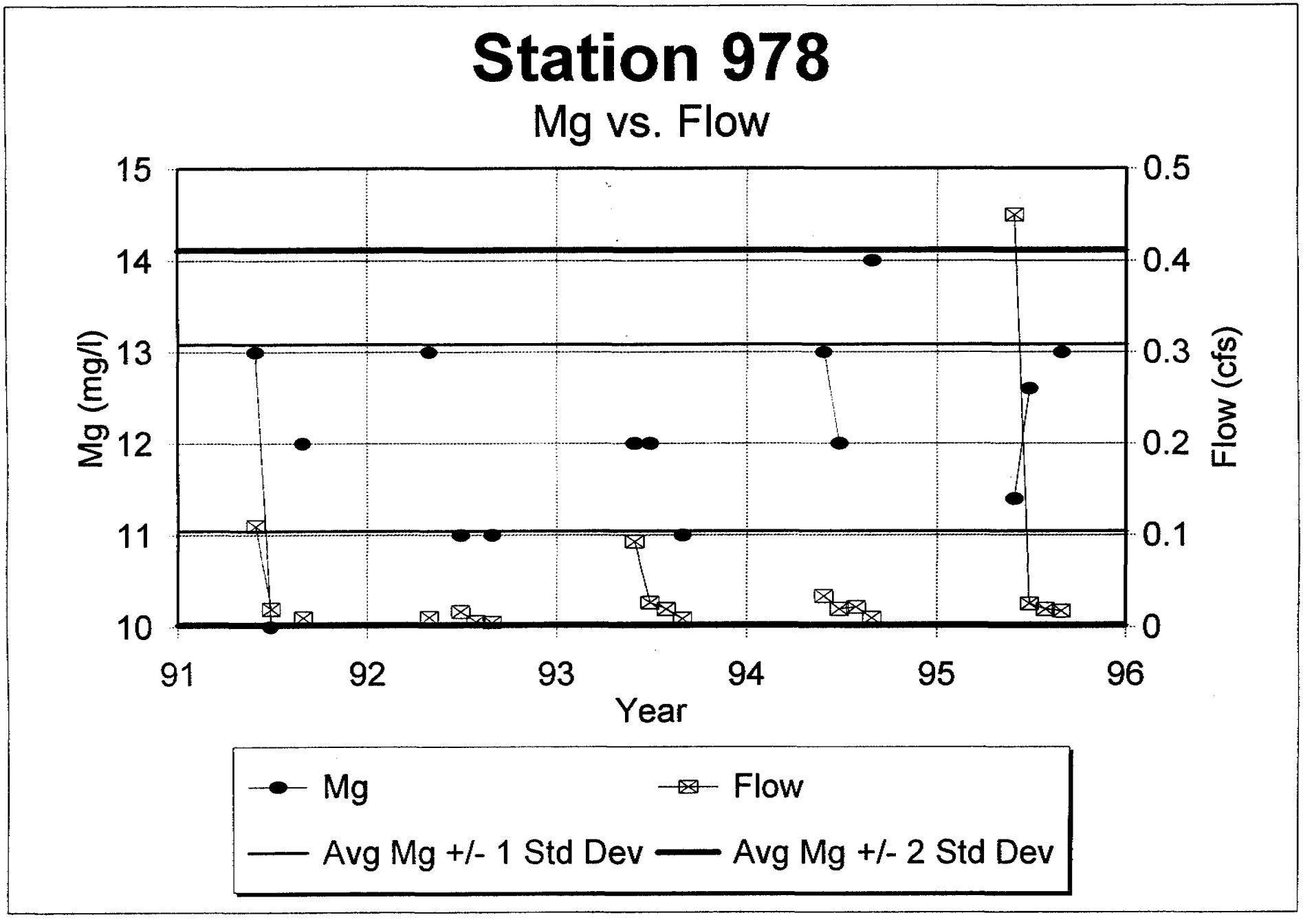
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

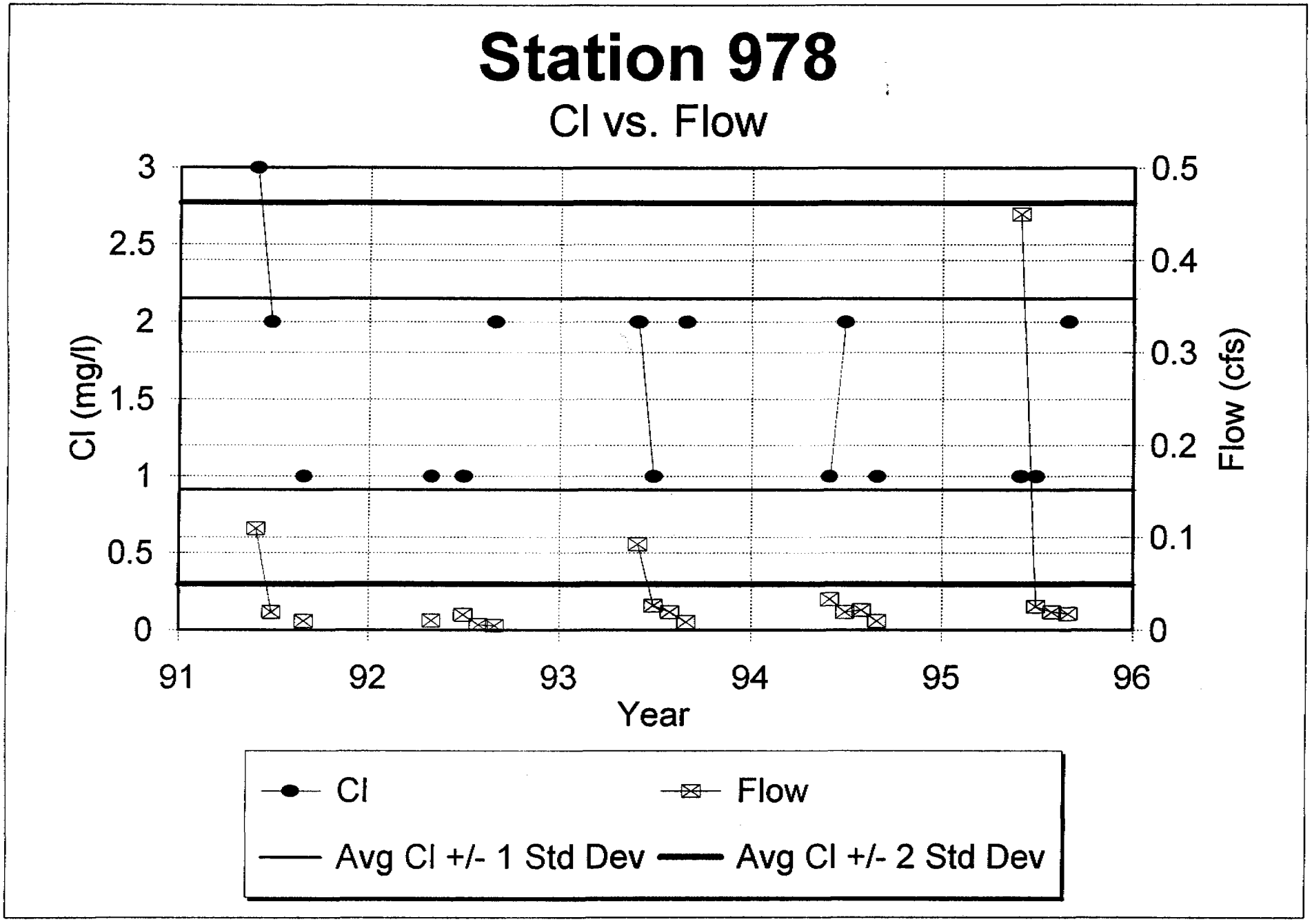

Station 978
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
3
3.5
Flow (cfs)
0.5
0.4
0.3
0.2
0.1
0
Jan-84
Apr-86
Jul-88
Oct-90
Jan-93
Apr-95
Year
Monthly Precipitation
Flow

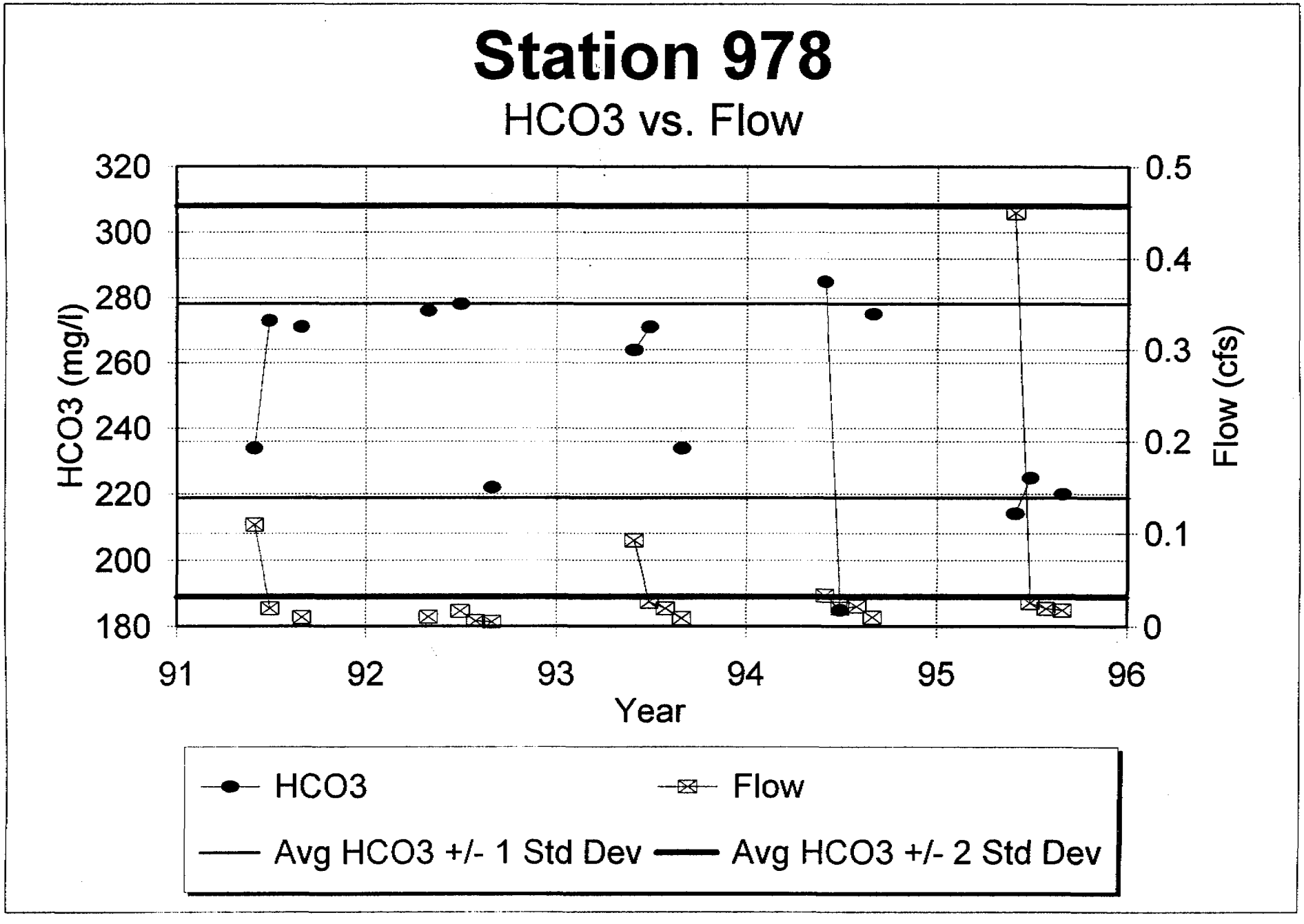

Station 978
pH vs. Flow
8.5
8
7.5
7
6.5
6
5.5
pH (units)
0.5
0.4
0.3
0.2
0.1
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

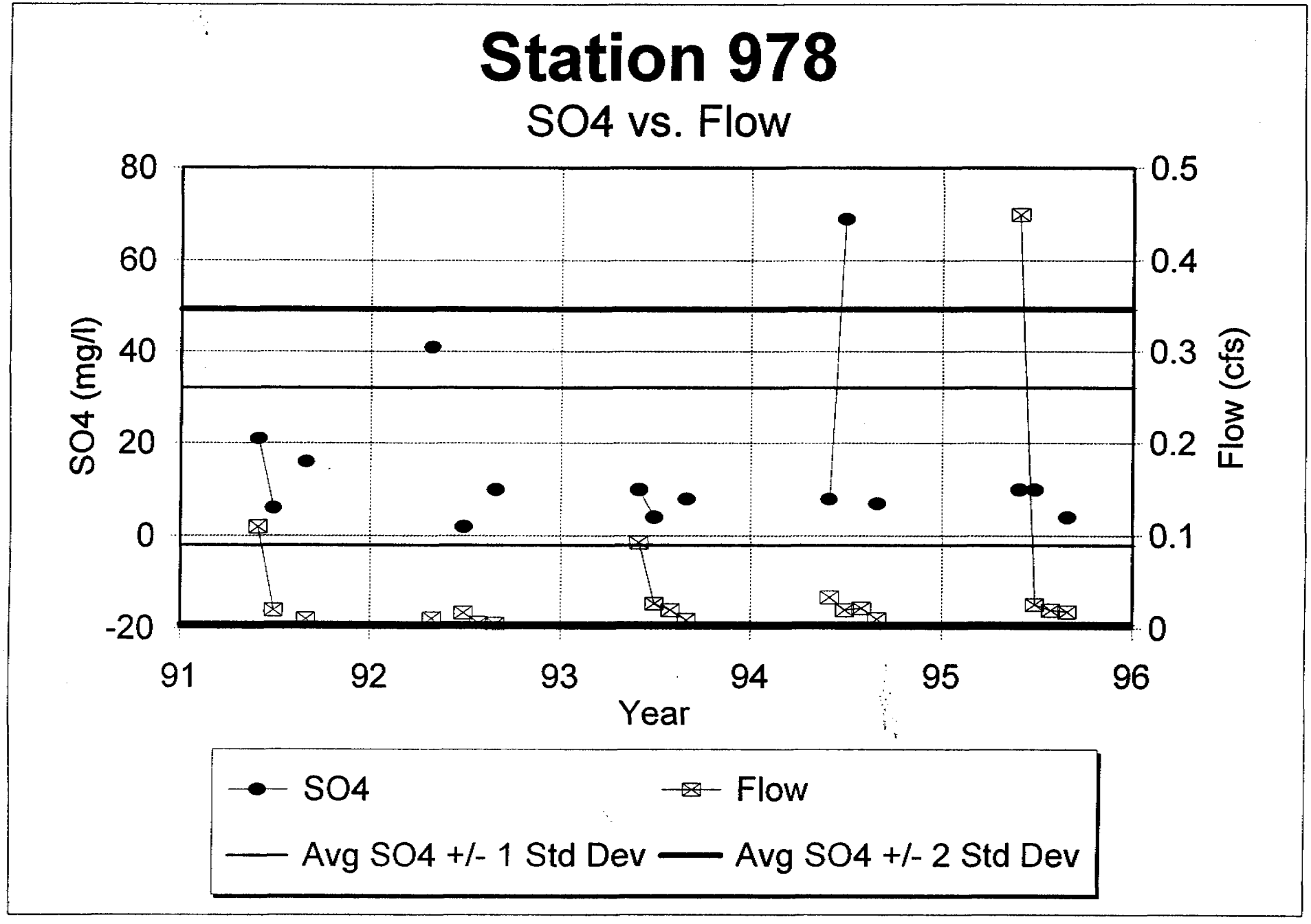

Station 978
TDS vs. Flow
TDS (mg/l)
320
300
280
260
240
220
200
180
Flow (cfs)
0.5
0.4
0.3
0.2
0.1
0
84
85
86
87
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 978
Ca vs. Flow
Ca (mg/l)
85
80
75
70
65
60
55
Flow (cfs)
0.5
0.4
0.3
0.2
0.1
0
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 978
Mg vs. Flow
Mg (mg/l)
15
14
13
12
11
10
0.5
0.4
0.3
0.2
0.1
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 978
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
3
2.5
2
1.5
1
0.5
0
0.5
0.4
0.3
0.2
0.1
0
91
92
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 978
HCO3 vs. Flow
HCO3 (mg/l)
320
300
280
260
240
220
200
180
Flow (cfs)
0.5
0.4
0.3
0.2
0.1
0
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 978
SO4 vs. Flow
80
60
40
20
0
-20
SO4 (mg/l)
0.5
0.4
0.3
0.2
0.1
0
Flow (cfs)
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 3, 1996

Station: 85261 | Property: Star Point | Location: 250' N 1625' E of SW com. Sec 26, T15S, R7e | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9400

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85																						
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/12/85	0.07				263																
Jul-85																						
Aug-85																						
Sep-85	09/24/85	0.03				244																
Oct-85																						
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86																						
Jul-86																						
Aug-86																						
Sep-86	09/30/86	0.03				235																
Oct-86																						
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87																						
Apr-87																						
May-87	05/22/87	0.04																				
Jun-87																						
Jul-87	07/16/87	0.05																				
Aug-87																						
Sep-87	09/22/87	0.03				232																
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88	06/02/88	0.05																				
Jul-88	07/16/88	0.03				272																
Aug-88	08/19/88	0.04																				
Sep-88	09/10/88	0.03				280																
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/05/89	0.03																				
Jul-89	07/11/89	0.03																				
Aug-89	08/22/89	0.02																				
Sep-89	09/14/89	0.03																				
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0.03																				
Jun-90																						
Jul-90	07/06/90	0.02																				
Aug-90	08/22/90	0.02																				
Sep-90	09/24/90	0.02																				
Oct-90																						
Nov-90																						
Dec-90																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 3, 1996

Station: 85261 | Property: Star Point | Location: 250' N 1625' E of SW corn. Sec 26, T15S, R7e | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9400

Date Mo-Yr	Sample Date	Field Measurements Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/12/91	0.06	7.2	510	4	314			243	259	12	3	21	56	25	1	2	<	0.02	0.05 <	0.01	
Jul-91	07/15/91	0.04																				
Aug-91																						
Sep-91	09/17/91	0.02	8.2	320	6	262			259	290	0	2	4	61	26 <	1	2		0.05	0.05 <	0.01	
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/20/92	0.0557	7.2	502	5.6	254			270	290	0	1	45	62	28	1	3	<	0.02	0.35		
Jun-92																						
Jul-92	07/15/92	0.027	7.7	486	5.5																	
Aug-92	08/26/92	0.033	7.5	469	6																	
Sep-92	09/21/92	0.0223	6.3	486	6.1																	
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/22/93	0.01	6.2	475	5.5	232			232	310	0	2	2	55	23 <	1	2	<	0.02	0.02 <	0.01	
Jul-93	07/26/93	0.038	6.3	456	5.7																	
Aug-93	08/18/93	0.056	6.3	456	5.8																	
Sep-93	09/27/93	0.024	6.4	428	7.3	262			236	300	0	2	15	55	24 <	1	3	<	0.02	0.16 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/06/94	0.045	7.5	554	4.5	240			238	311	0	2	15	59	22 <	1	2	<	0.02	0.03 <	0.01	CATIONS AND ANIONS
Jul-94		0.02	8	456	14.1	258			233	283	7	2	14	54	24	3	3	<	0.02	0.05 <	0.01	
Aug-94	08/31/94	0.01	8	403	11.4																	RAIN IN A.M. = ~.10". LO
Sep-94		0.02	7.6	436	11.7	258			258	327	0	2	15	66	29 <	1	3		0.08	0.07 <	0.01	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/21/95	0.19	7.5	549	6.5	290			284	245 <	2	1	30	66.9	28.5	0.8	2.9	2.4 <	0.01	0.01 <	0.005	
Jul-95	07/26/95	0.055	7.5	505	6	250			286	255 <	2	3	10	66.5	29.2	0.6	2.9	4.2	0.01	0.02 <	0.005	
Aug-95	08/23/95	0.04	7.15	450	7																	
Sep-95	09/27/95	0.045	7.5	534	10	280			281	243 <	2	4	20	65.6	28.4	0.9	2.8	3.3 <	0.01	0.03 <	0.005	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		37	18	18	18	17	0	0	11	11	11	11	11	11	11	11	11	3	11	11	10	
Minimum		0.01	6.2	320	4	232	ERR	ERR	232	243 <	0	1	2	54	22 <	0.6	2	2.4 <	0.01	0.01 <	0.005	
Maximum		0.19	8.2	554	14.1	314	ERR	ERR	286	327 <	12	4	45	66.9	29.2 <	3	3	4.2 <	0.08	0.35 <	0.01	
Average		0.0381	7.225	470.83	7.15	260.35	ERR	ERR	256.36	283 <	2.2727	2.1818	17.364	60.636	26.1 <	1.1182	2.6	3.3 <	0.0255	0.0764 <	0.0085	
Standard Deviation		0.0289	0.6325	54.091	2.6817	21.378	ERR	ERR	20.259	27.37 <	3.6703	0.8332	11.444	4.8689	2.5071 <	0.6073	0.4573	0.7348 <	0.0202	0.0949 <	0.0023	
Avg. -1 Std. Dev.		0.0092	6.5925	416.74	4.4683	238.98	ERR	ERR	236.1	255.63 <	-1.398	1.3486	5.9199	55.767	23.593 <	0.5109	2.1427	2.5652 <	0.0053	-0.019 <	0.0062	
Avg. +1 Std. Dev.		0.0671	7.8575	524.92	9.8317	281.73	ERR	ERR	276.62	310.37 <	5.943	3.015	28.807	65.505	28.607 <	1.7254	3.0573	4.0348 <	0.0456	0.1713 <	0.0108	

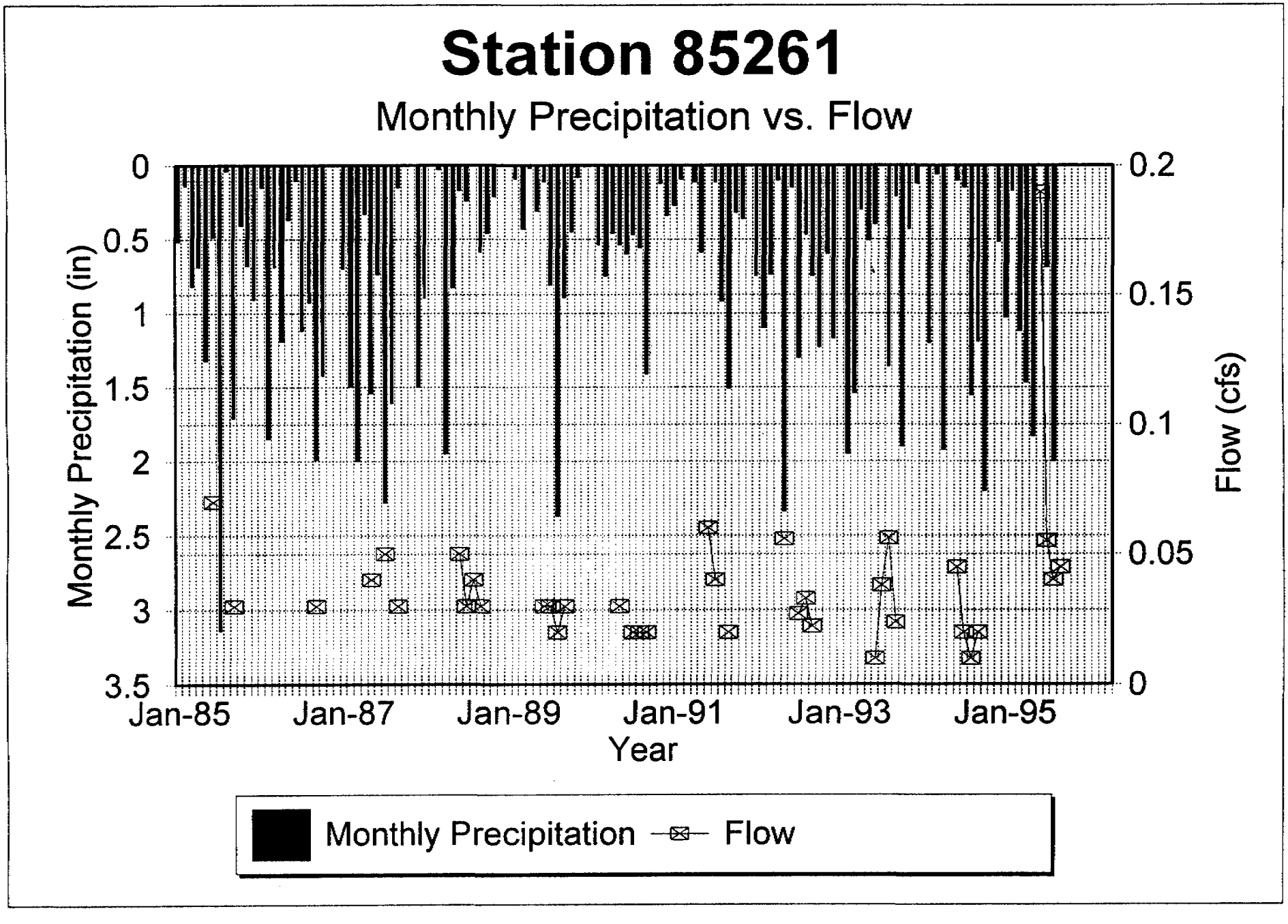
Cyprus Plateau Mining Company - Water Quality Data

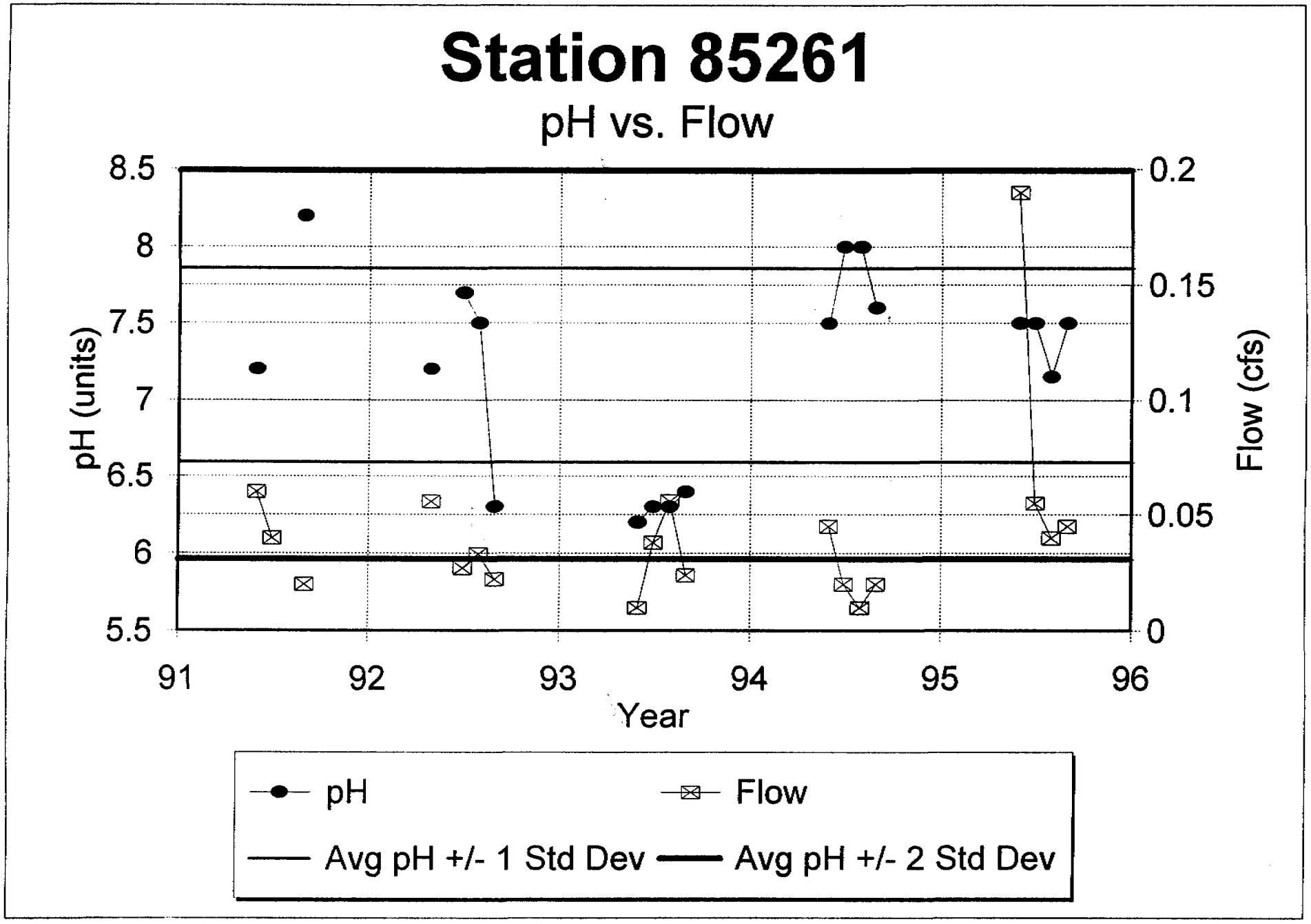
Print Date: May 3, 1996

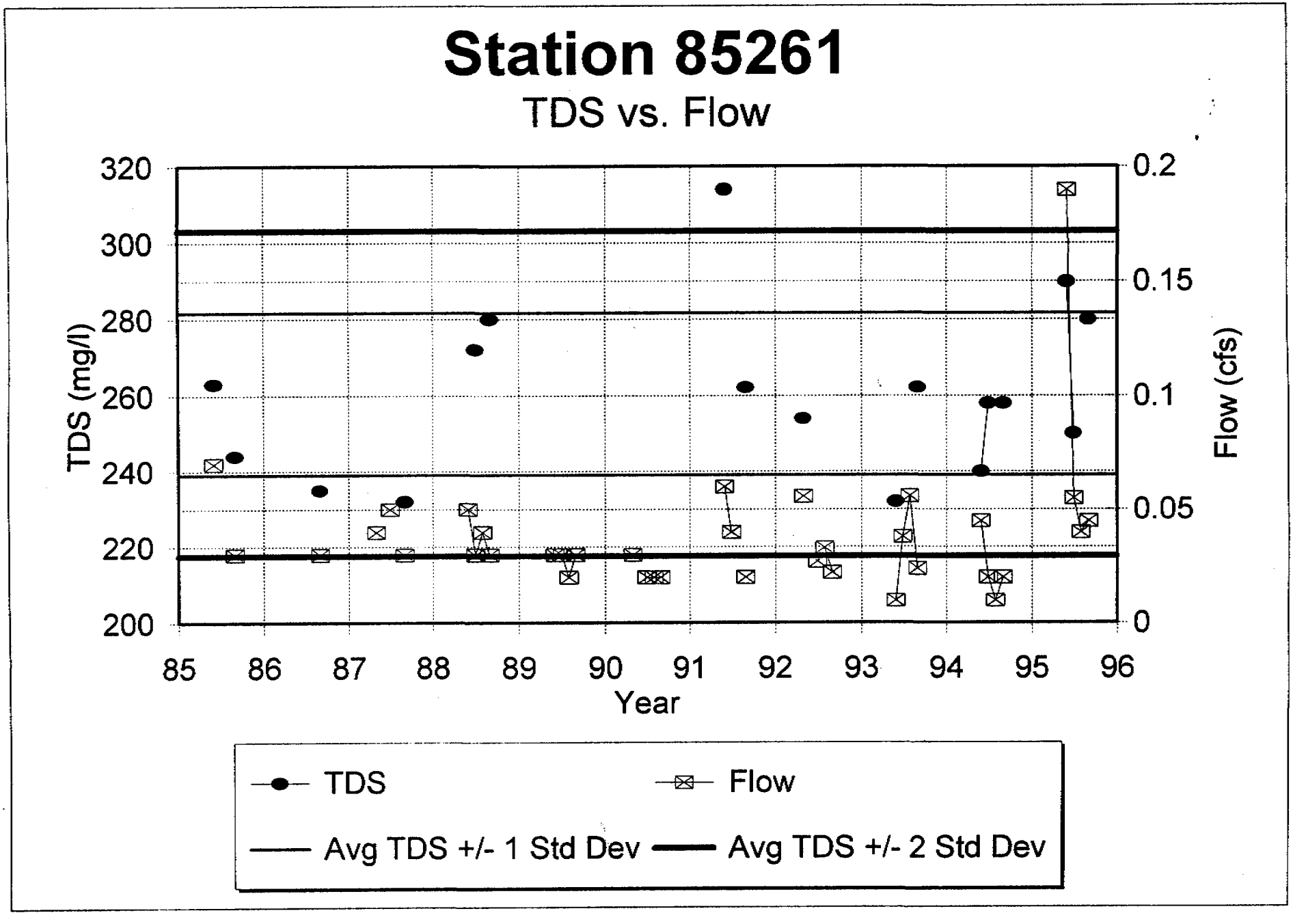
Station: 85261 | Property: Star Point | Location: 250' N 1625' E of SW corn. Sec 26, T15S, R7e | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9400

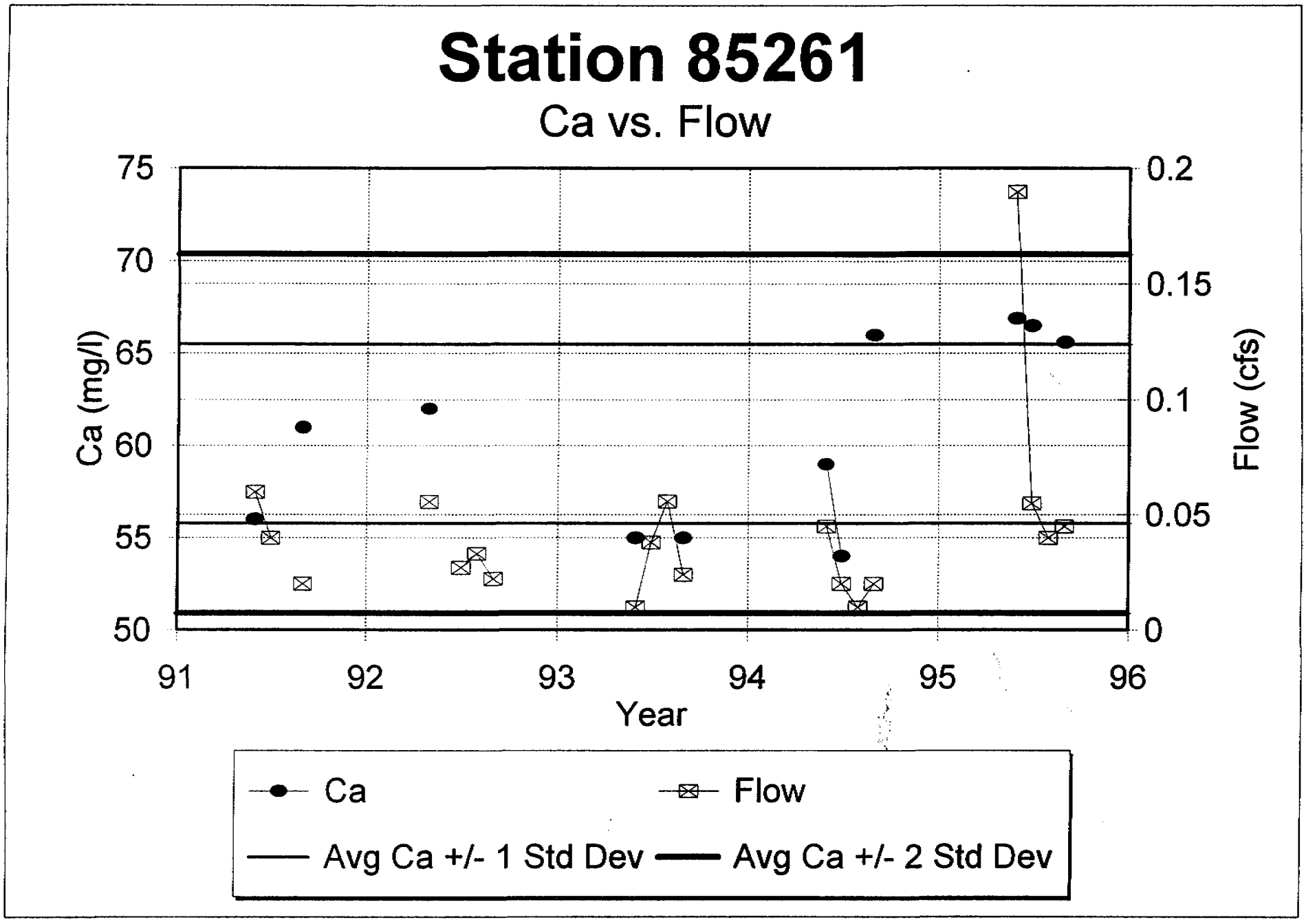
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Avg. -2 Std. Dev.		-0.02	5.96	362.65	1.7866	217.6	ERR	ERR	215.85	228.26 <	-5.068	0.5154	-5.524	50.899	21.086 <	-0.096	1.6855	1.8303 <	-0.015	-0.113 <	0.0039	
Avg. +2 Std. Dev.		0.096	8.49	579.01	12.513	303.1	ERR	ERR	296.86	337.74 <	9.6133	3.8482	40.251	70.374	31.114 <	2.3327	3.5145	4.7697 <	0.0658	0.2662 <	0.0131	

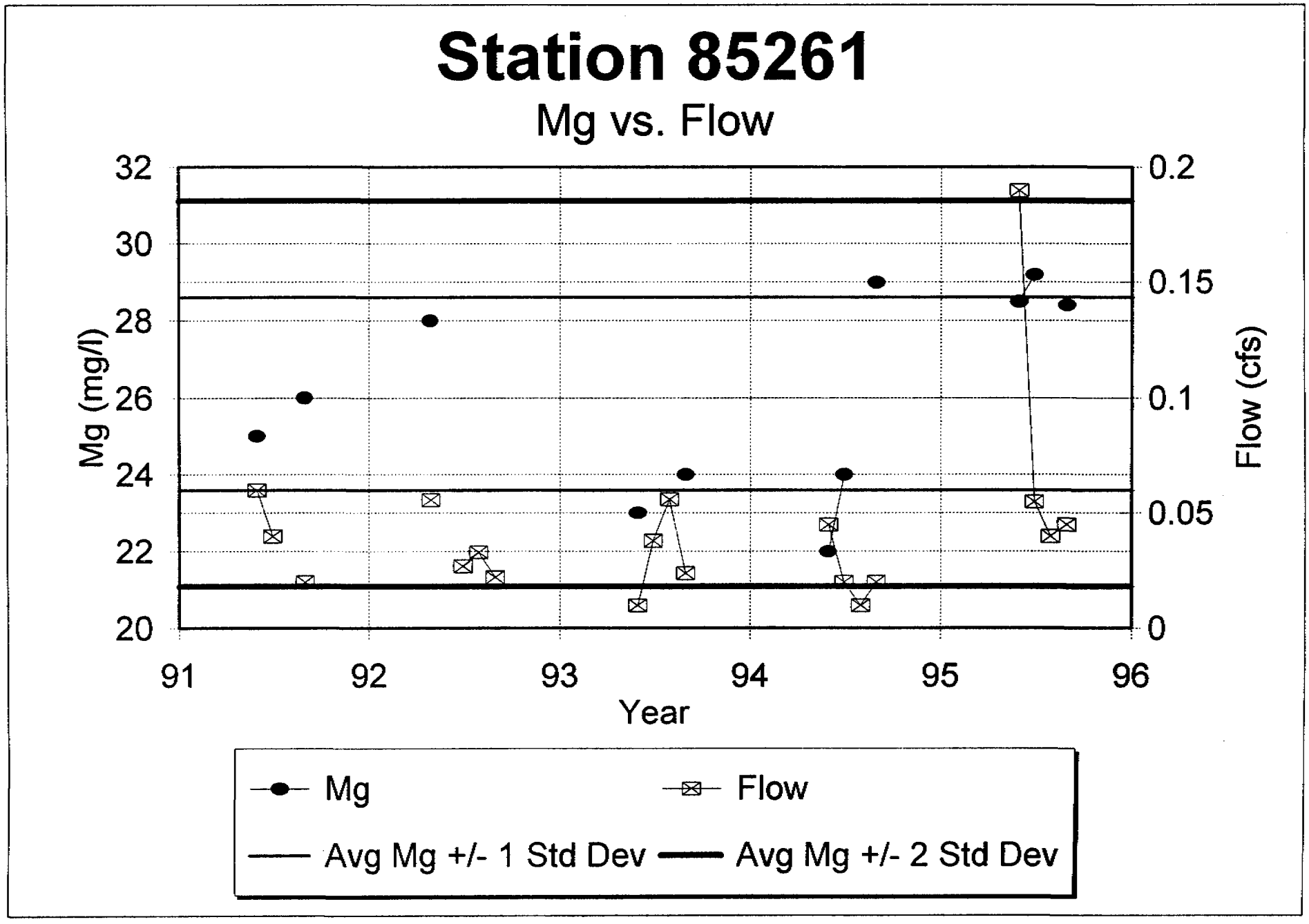
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

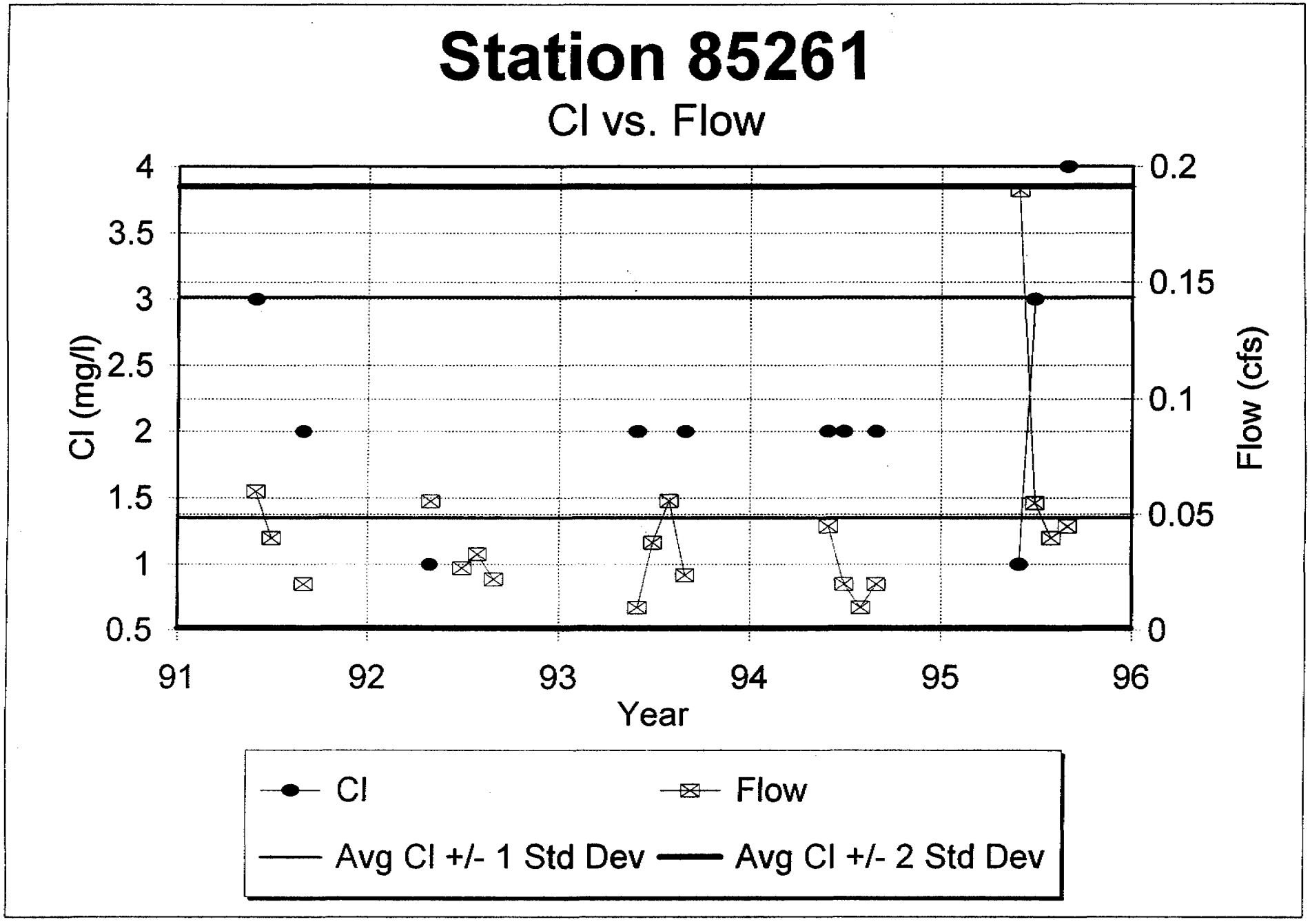

Station 85261
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
3
3.5
Flow (cfs)
0.2
0.15
0.1
0.05
0
Jan-85
Jan-87
Jan-89
Jan-91
Jan-93
Jan-95
Year
Monthly Precipitation
Flow

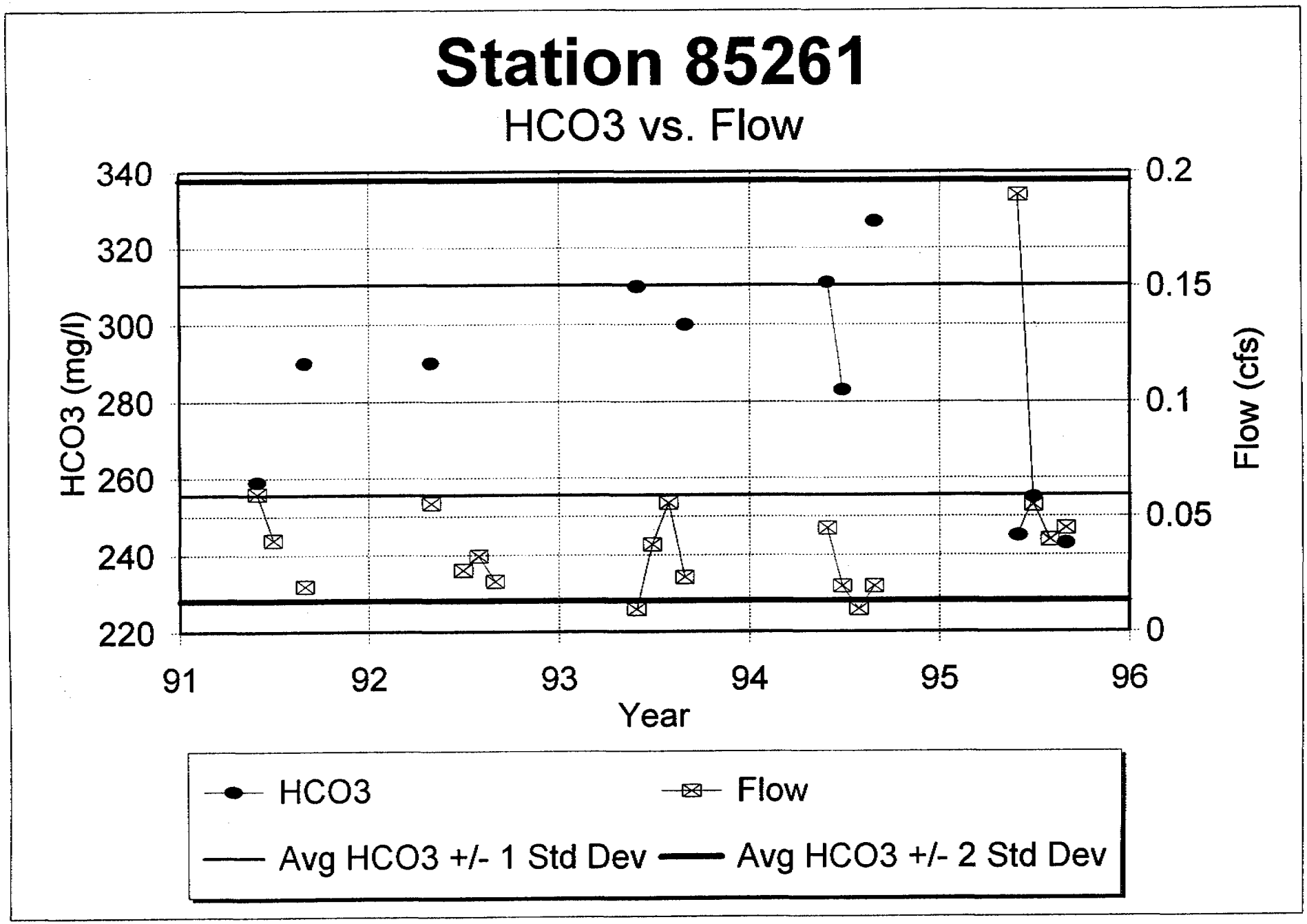

Station 85261
pH vs. Flow
8.5
8
7.5
7
6.5
6
5.5
pH (units)
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

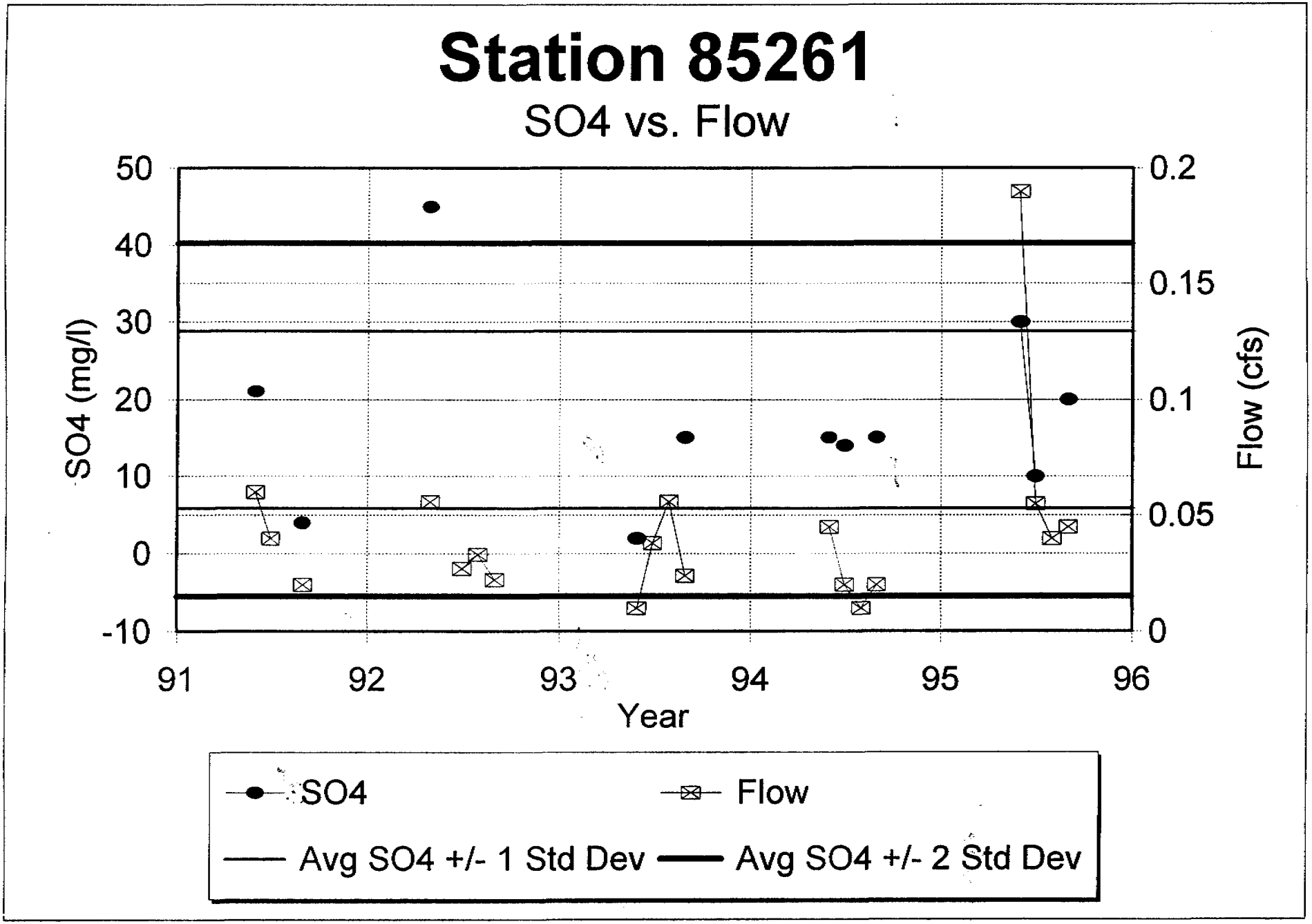

Station 85261
TDS vs. Flow
TDS (mg/l)
320
300
280
260
240
220
200
Flow (cfs)
0.2
0.15
0.1
0.05
0
85
86
87
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 85261
Ca vs. Flow
75
70
65
60
55
50
Ca (mg/l)
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 85261
Mg vs. Flow
Mg (mg/l)
32
30
28
26
24
22
20
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 85261
Cl vs. Flow
Cl (mg/l)
4
3.5
3
2.5
2
1.5
1
0.5
Flow (cfs)
0.2
0.15
0.1
0.05
0
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 85261
HCO3 vs. Flow
340
320
300
280
260
240
220
HCO3 (mg/l)
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 85261
SO4 vs. Flow
SO4 (mg/l)
50
40
30
20
10
0
-10
Flow (cfs)
0.2
0.15
0.1
0.05
0
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

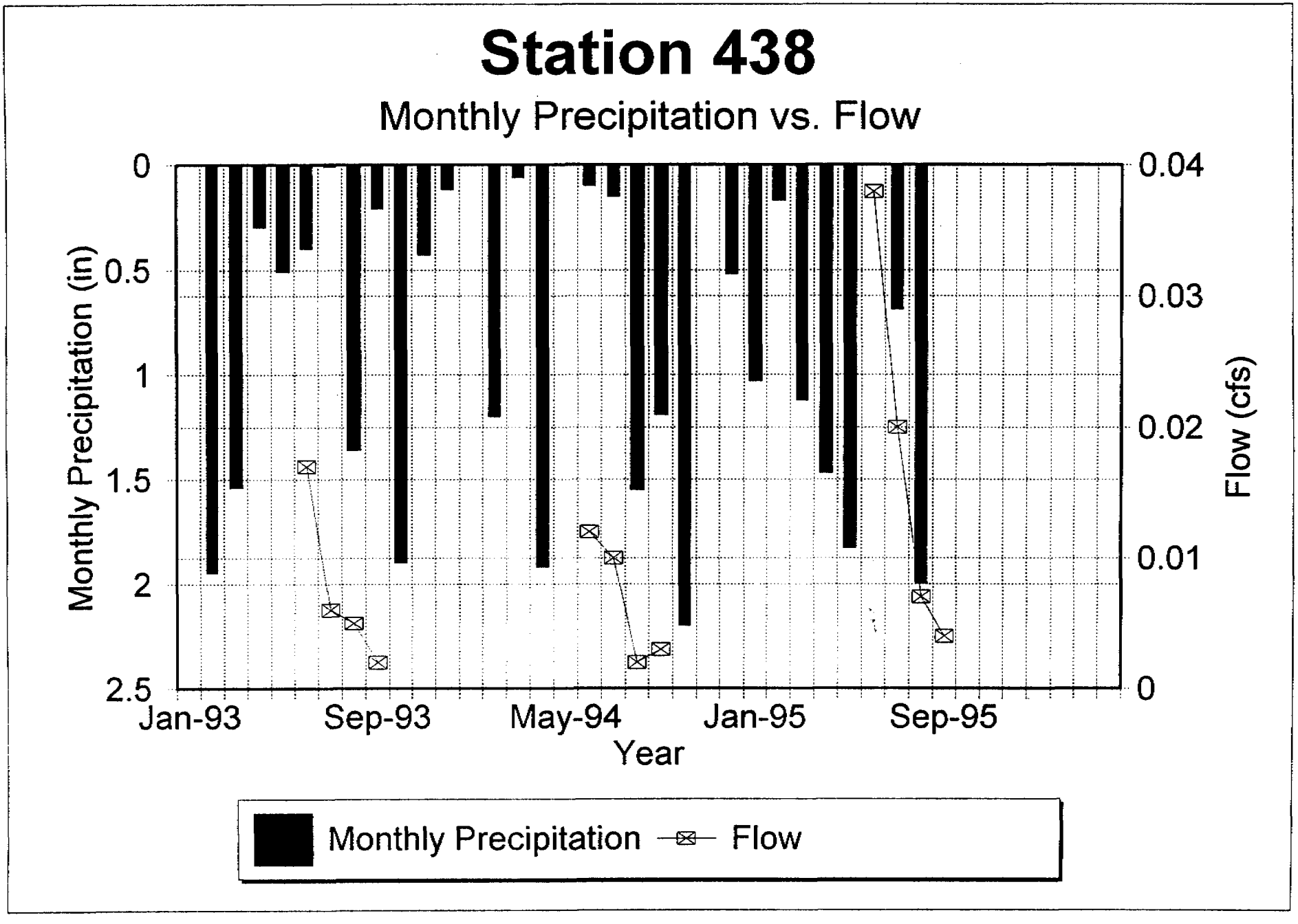
Cyprus Plateau Mining Company - Water Quality Data

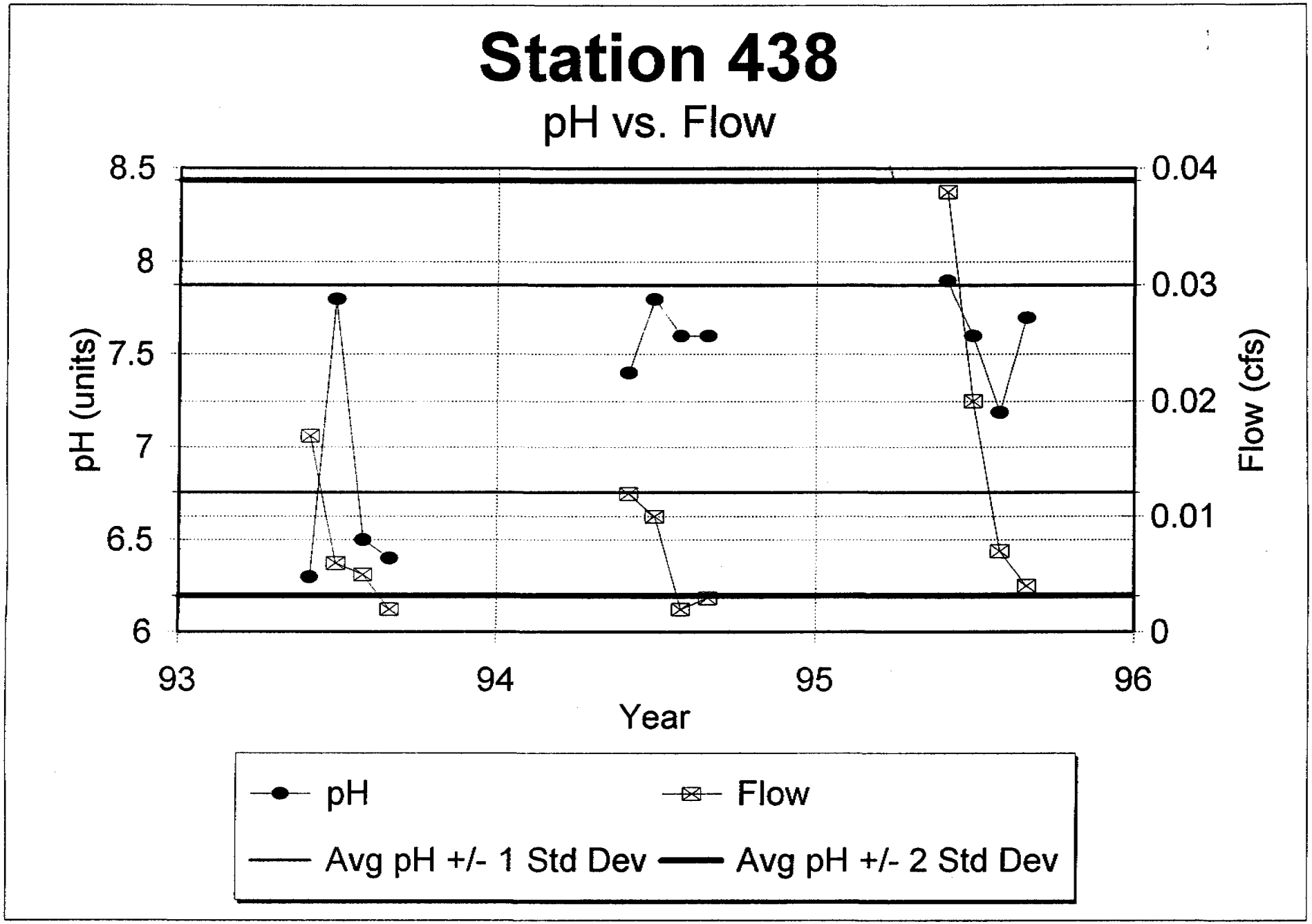
Print Date: May 2, 1996

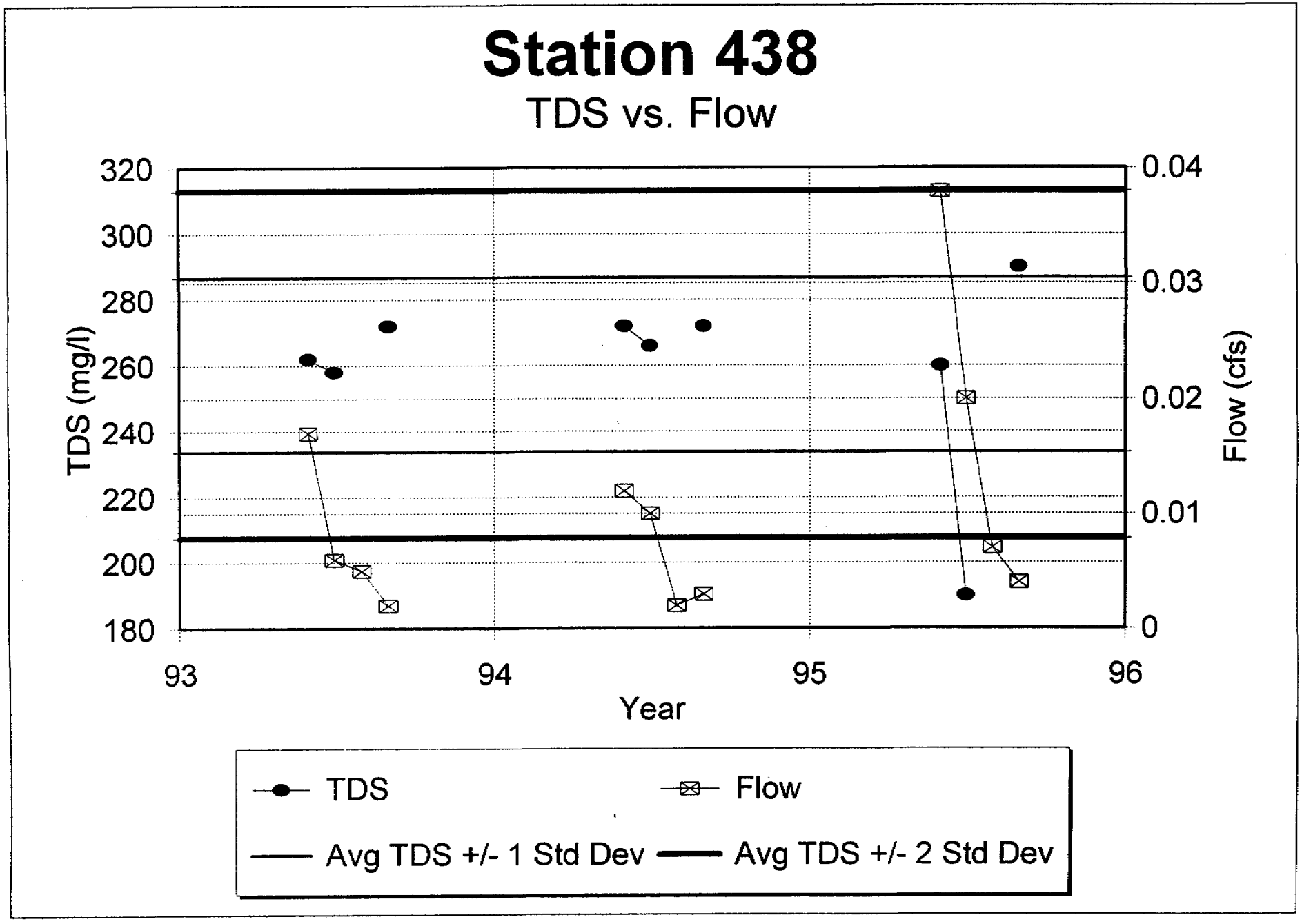
Station: 438 | Property: Star Point | Location: 1500' S 1500' W of NE corn Sec 15, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9480

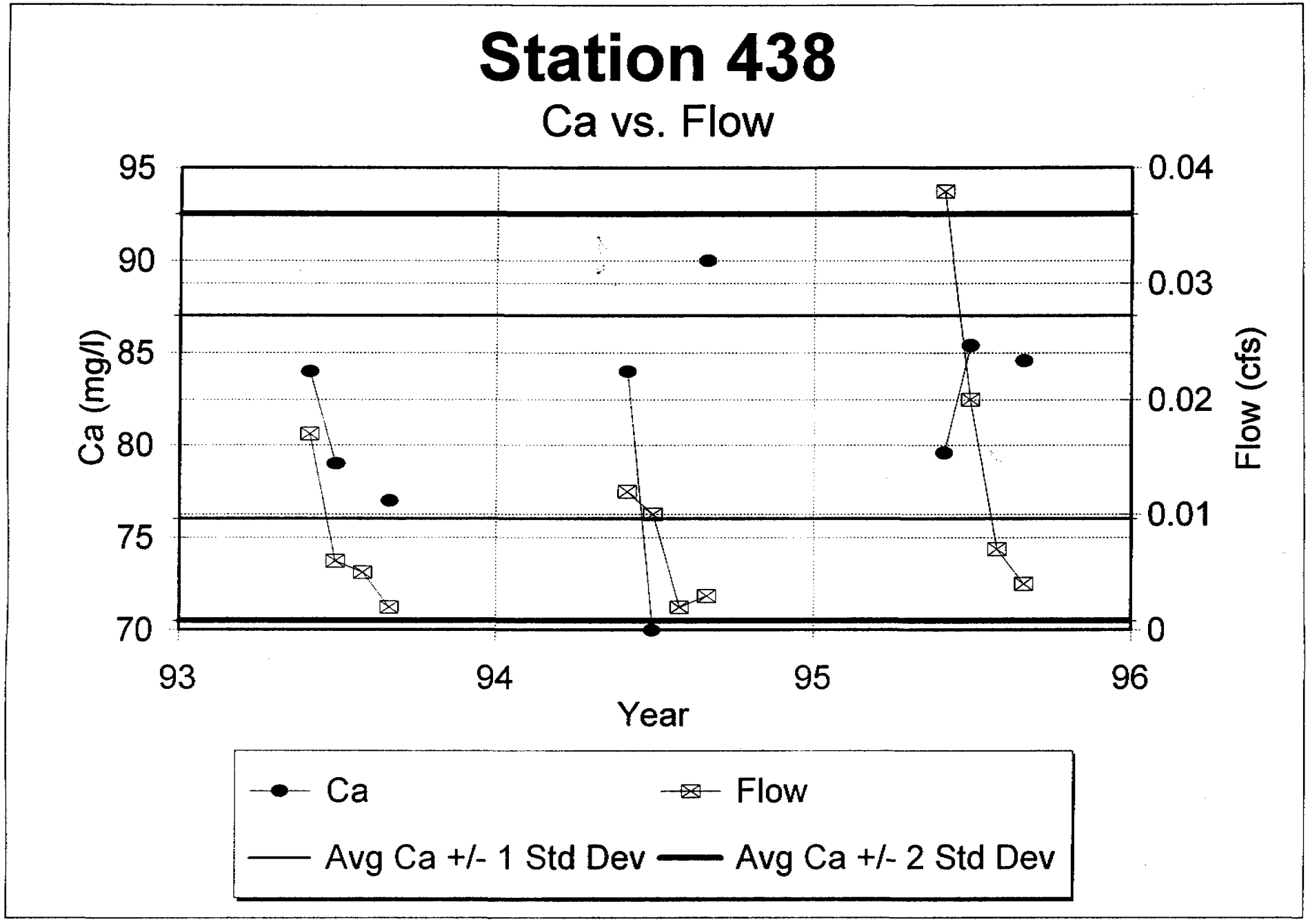
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-93																							
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93	06/21/93	0.017	6.3	457	7.9	262			276	322	0	1	2	84	16 <	1	2	<	0.02	0.06 <	0.01		
Jul-93	07/27/93	0.006	7.8	355	7.8	258			267	325	0	2	9	79	17 <	1	2	<	0.02	0.1 <	0.01		
Aug-93	08/17/93	0.005	6.5	485	13.2																		
Sep-93	09/27/93	0.002	6.4	499	9.1	272			258	295	0	3	6	77	16 <	1	2	<	0.02 <	0.02 <	0.01		
Oct-93																							
Nov-93																							
Dec-93																							
Jan-94																							
Feb-94																							
Mar-94																							
Apr-94																							
May-94																							
Jun-94	06/20/94	0.012	7.4	516	4.9	272			280	329	0	1	2	84	17 <	1	2	<	0.02	0.03 <	0.01		
Jul-94	07/19/94	< 0.01	7.8	504	16.7	266			237	312	5	2	2	70	15 <	1	2	<	0.02	0.24 <	0.01		
Aug-94	08/31/94	0.002	7.6	426	13.8																	POOR SAMPLE - COWS	
Sep-94	09/21/94	0.003	7.6	540	10.1	272			303	329	0	2	5	90	19 <	1	2	<	0.02	2.06	0.05		
Oct-94																							
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95																							
Mar-95																							
Apr-95																							
May-95																							
Jun-95	06/21/95	0.038	7.9	468	8	260			259	235 <	2 <	1	238	79.6	14.6	0.6	1.9	5.8	0.06	0.37	0.014		
Jul-95	07/26/95	0.02	7.6	545	7	190			286	255 <	2 <	1	10	85.4	17.7	0.4	2.3	4.2	0.02	0.42	0.008		
Aug-95	08/23/95	0.007	7.19	477	10																		
Sep-95	09/27/95	0.004	7.7	550	10	290			286	264 <	2	2	7	84.6	18.1	0.5	2.1	3 <	0.01	0.08 <	0.005		
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
END DATA																							
Count		12	12	12	12	9	0	0	9	9	9	9	9	9	9	9	9	3	9	9	9		
Minimum		< 0.002	6.3	355	4.9	190	ERR	ERR	237	235 <	0 <	1	2	70	14.6 <	0.4	1.9	3 <	0.01 <	0.02 <	0.005		
Maximum		< 0.038	7.9	550	16.7	290	ERR	ERR	303	329 <	5 <	3	238	90	19 <	1	2.3	5.8 <	0.06 <	2.06 <	0.05		
Average		< 0.0105	7.3158	485.17	9.875	260.22	ERR	ERR	272.44	296.22 <	1.2222 <	1.6667	31.222	81.511	16.711 <	0.8333	2.0333	4.3333 <	0.0233 <	0.3756 <	0.0141		
Standard Deviation		< 0.01	0.5597	53.139	3.142	26.406	ERR	ERR	16.398	33.957 <	1.6178 <	0.6667	73.162	5.4968	1.3626 <	0.2404	0.1054	1.147 <	0.0133 <	0.6116 <	0.0129		
Avg. -1 Std. Dev.		< 0.0005	6.7561	432.03	6.733	233.82	ERR	ERR	254.05	262.27 <	-0.396 <	1	-41.94	76.014	15.349 <	0.593	1.9279	3.1864 <	0.01 <	-0.236 <	0.0012		
Avg. +1 Std. Dev.		< 0.0205	7.8755	538.31	13.017	286.63	ERR	ERR	290.84	330.18 <	2.84 <	2.3333	104.38	87.008	18.074 <	1.0737	2.1387	5.4803 <	0.0367 <	0.9871 <	0.027		
Avg. -2 Std. Dev.		< -0.009	6.1964	378.89	3.5911	207.41	ERR	ERR	235.65	228.31 <	-2.013 <	0.3333	-115.1	70.518	13.986 <	0.3526	1.8225	2.0394 <	-0.003 <	-0.848 <	-0.012		
Avg. +2 Std. Dev.		< 0.0305	8.4352	591.45	16.159	313.03	ERR	ERR	309.24	364.14 <	4.4578 <	3	177.55	92.505	19.436 <	1.3141	2.2442	6.6273 <	0.05 <	1.5987 <	0.0399		

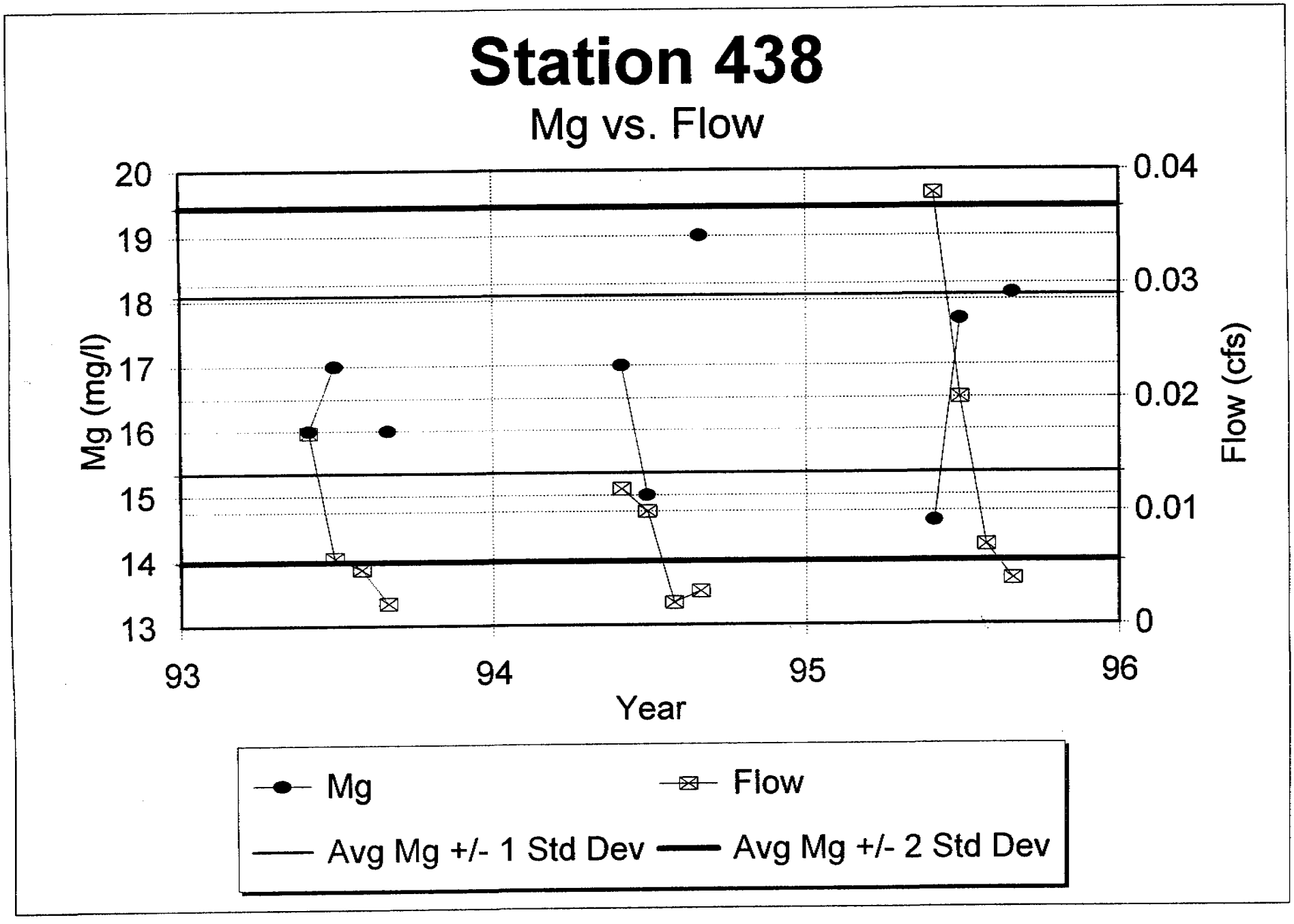
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

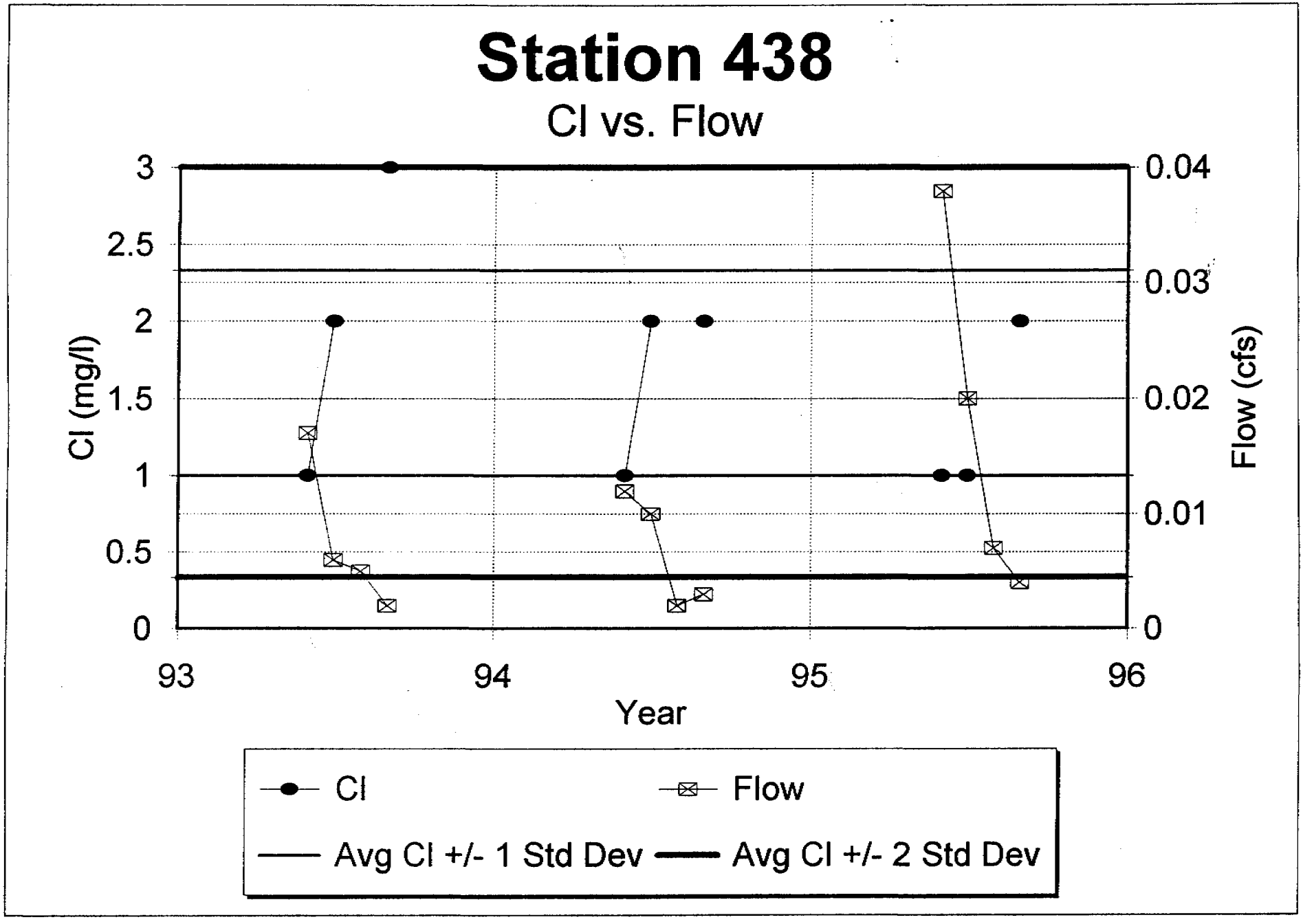

Station 438
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
0.04
0.03
0.02
0.01
0
Jan-93
Sep-93
May-94
Jan-95
Sep-95
Year
Monthly Precipitation
Flow

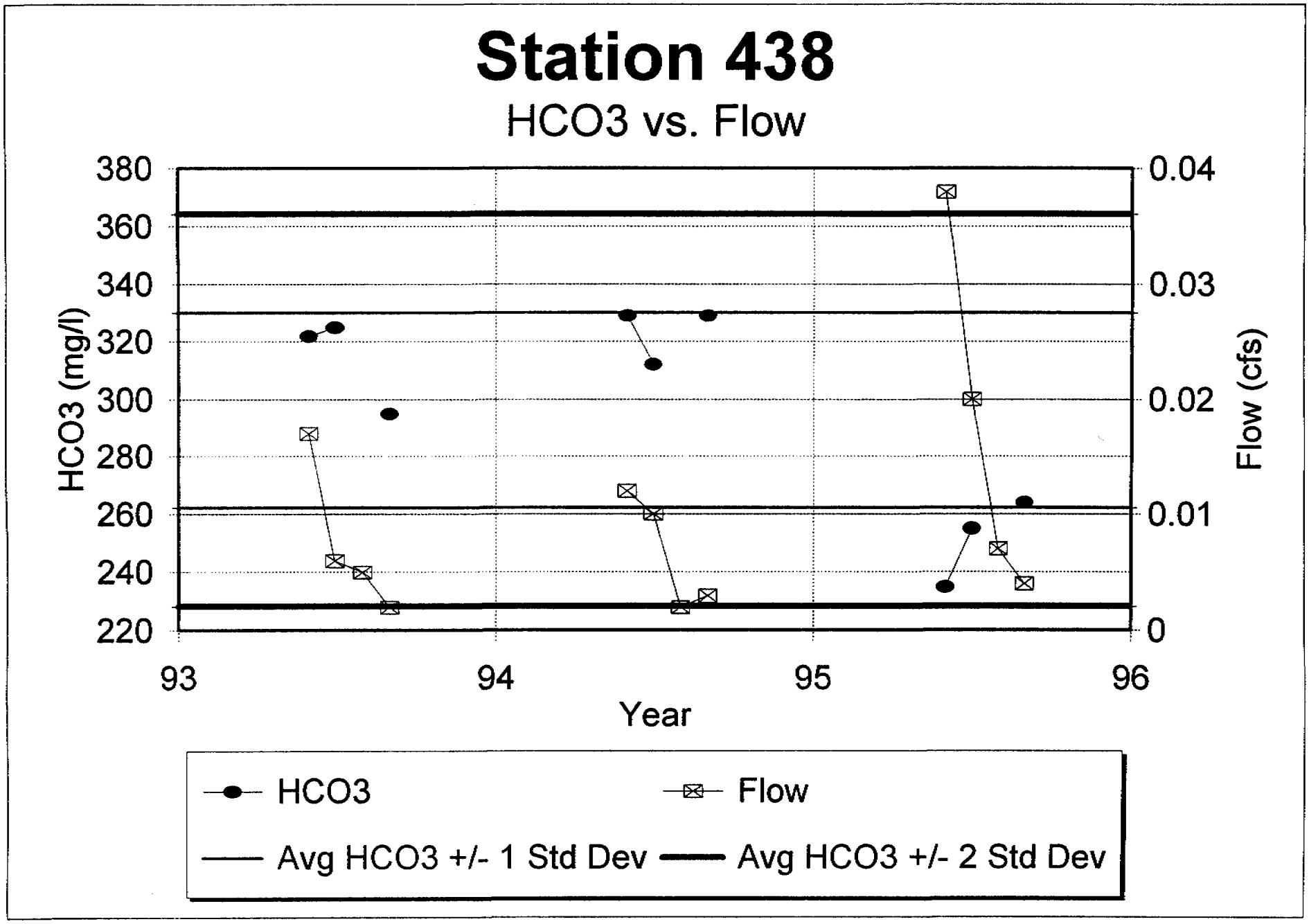

Station 438
pH vs. Flow
8.5
8
7.5
7
6.5
6
pH (units)
0.04
0.03
0.02
0.01
0
Flow (cfs)
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

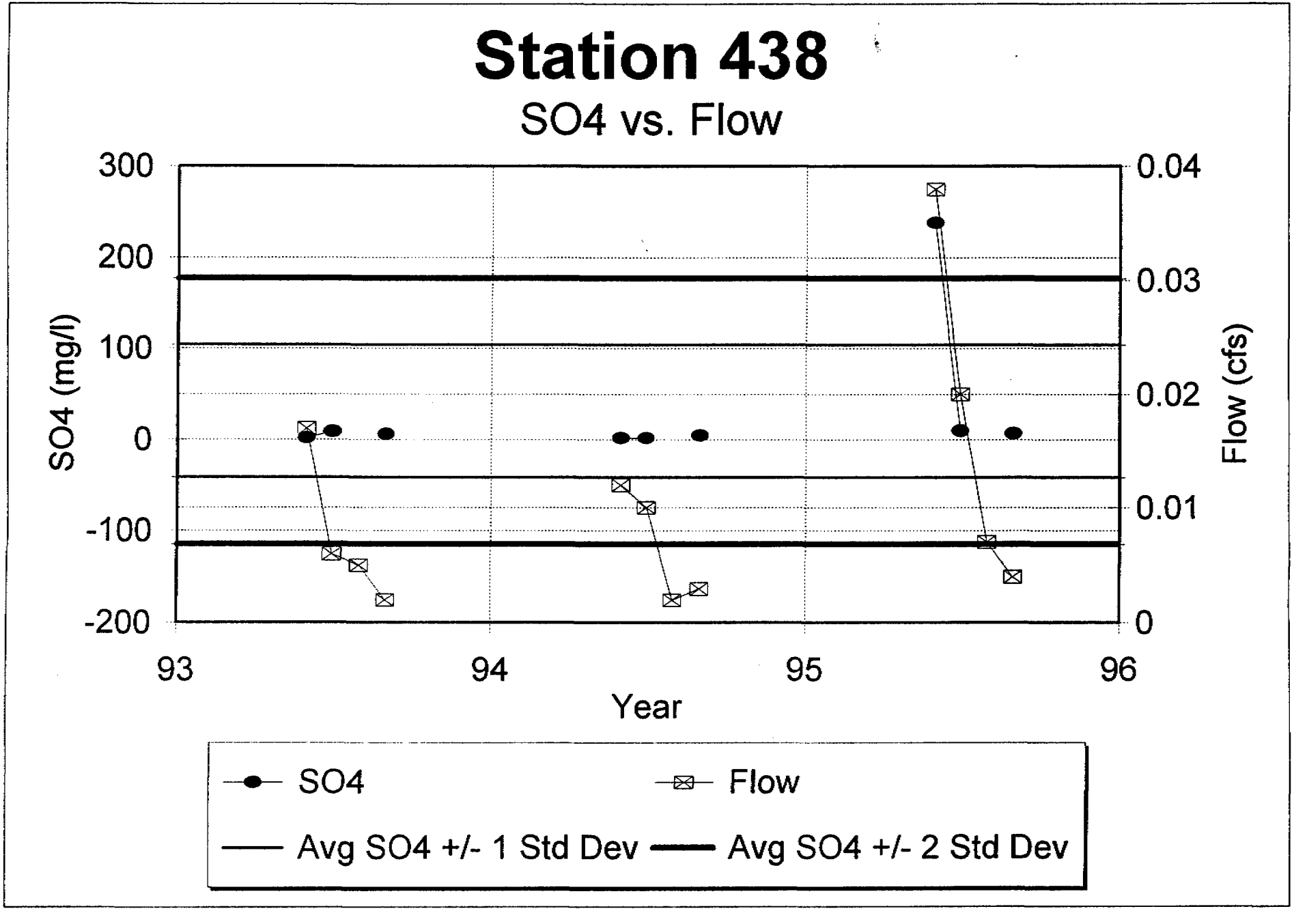

Station 438
TDS vs. Flow
320
300
280
260
240
220
200
180
TDS (mg/l)
0.04
0.03
0.02
0.01
0
Flow (cfs)
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 438
Ca vs. Flow
95
90
85
80
75
70
Ca (mg/l)
0.04
0.03
0.02
0.01
0
Flow (cfs)
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 438
Mg vs. Flow
Mg (mg/l)
20
19
18
17
16
15
14
13
0.04
0.03
0.02
0.01
0
Flow (cfs)
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 438
Cl vs. Flow
Cl (mg/l)
3
2.5
2
1.5
1
0.5
0
0.04
0.03
0.02
0.01
0
Flow (cfs)
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 438
HCO3 vs. Flow
380
360
340
320
300
280
260
240
220
HCO3 (mg/l)
0.04
0.03
0.02
0.01
0
Flow (cfs)
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 438
SO4 vs. Flow
300
200
100
0
-100
-200
SO4 (mg/l)
0.04
0.03
0.02
0.01
0
Flow (cfs)
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 8, 1996

Station: 486 | Property: Star Point | Location: 1250' S 875' E of NW corn. Sec 25, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: | Elevation: 9100

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91																							
Jul-91																							
Aug-91																							
Sep-91																							
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92																							
Jun-92																							
Jul-92																							
Aug-92																							
Sep-92																							
Oct-92																							
Nov-92																							
Dec-92																							
Jan-93																							
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93																							
Jul-93																							
Aug-93																							
Sep-93																							
Oct-93																							
Nov-93																							
Dec-93																							
Jan-94																							
Feb-94																							
Mar-94																							
Apr-94																							
May-94																							
Jun-94																							
Jul-94																							
Aug-94																							
Sep-94																							
Oct-94																							
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95																							
Mar-95																							
Apr-95																							
May-95																							
Jun-95	06/22/95	0.056	7.2	623	4.5	320			347	321 <	2	3	30	103	21.7	0.6	2.6	-0.5	0.02 <	0.01 <	0.005		
Jul-95	07/26/95	0.04	7.3	572	7	300			336	295 <	2	3	10	98.4	21.9	0.5	2.6	5	0.02 <	0.01 <	0.005		
Aug-95	08/23/95	0.01	6.83	534	8																		
Sep-95	09/28/95	0.001	7.3	3900	8.89	310			333	297 <	2	3	7	95.9	22.8	0.9	2.7	4.9 <	0.01	0.09	0.01		
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
END DATA																							
Count		4	4	4	4	3	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3		
Minimum		0.001	6.83	534	4.5	300	ERR	ERR	333	295 <	2	3	7	95.9	21.7	0.5	2.6	-0.5 <	0.01 <	0.01 <	0.005		
Maximum		0.056	7.3	3900	8.89	320	ERR	ERR	347	321 <	2	3	30	103	22.8	0.9	2.7	5 <	0.02 <	0.09 <	0.01		
Average		0.0268	7.1575	1407.3	7.0975	310	ERR	ERR	338.67	304.33 <	2	3	15.667	99.1	22.133	0.6667	2.6333	3.1333 <	0.0167 <	0.0367 <	0.0067		
Standard Deviation		0.0222	0.1934	1439.5	1.642	8.165	ERR	ERR	6.0185	11.813 <	0	0	10.209	2.9405	0.4784	0.17	0.0471	2.5695 <	0.0047 <	0.0377 <	0.0024		
Avg. -1 Std. Dev.		0.0045	6.9641	-32.29	5.4555	301.84	ERR	ERR	332.65	292.52 <	2	3	5.4577	96.159	21.655	0.4967	2.5862	0.5639 <	0.012 <	-0.001 <	0.0043		

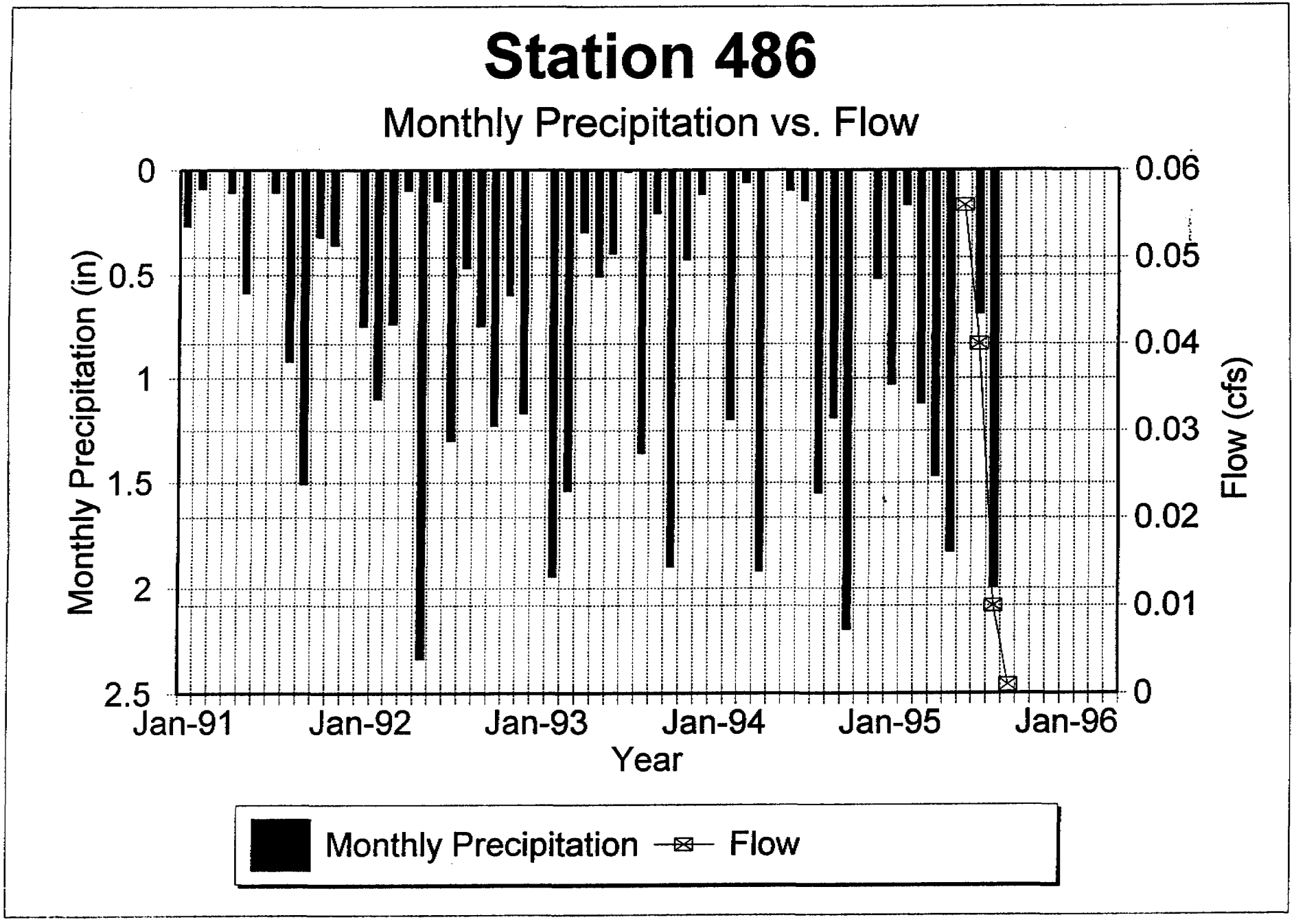
Cyprus Plateau Mining Company - Water Quality Data

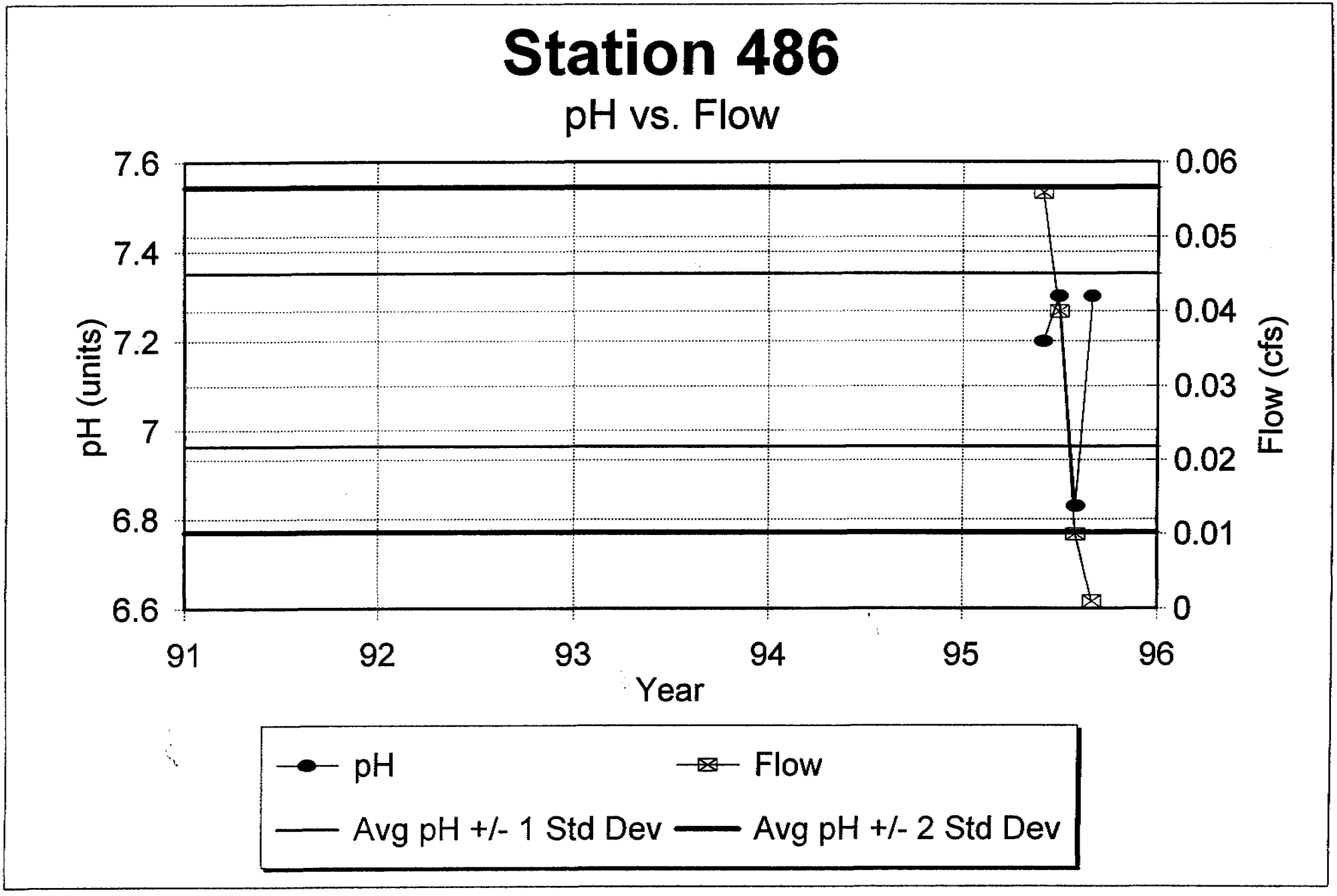
Print Date: May 8, 1996

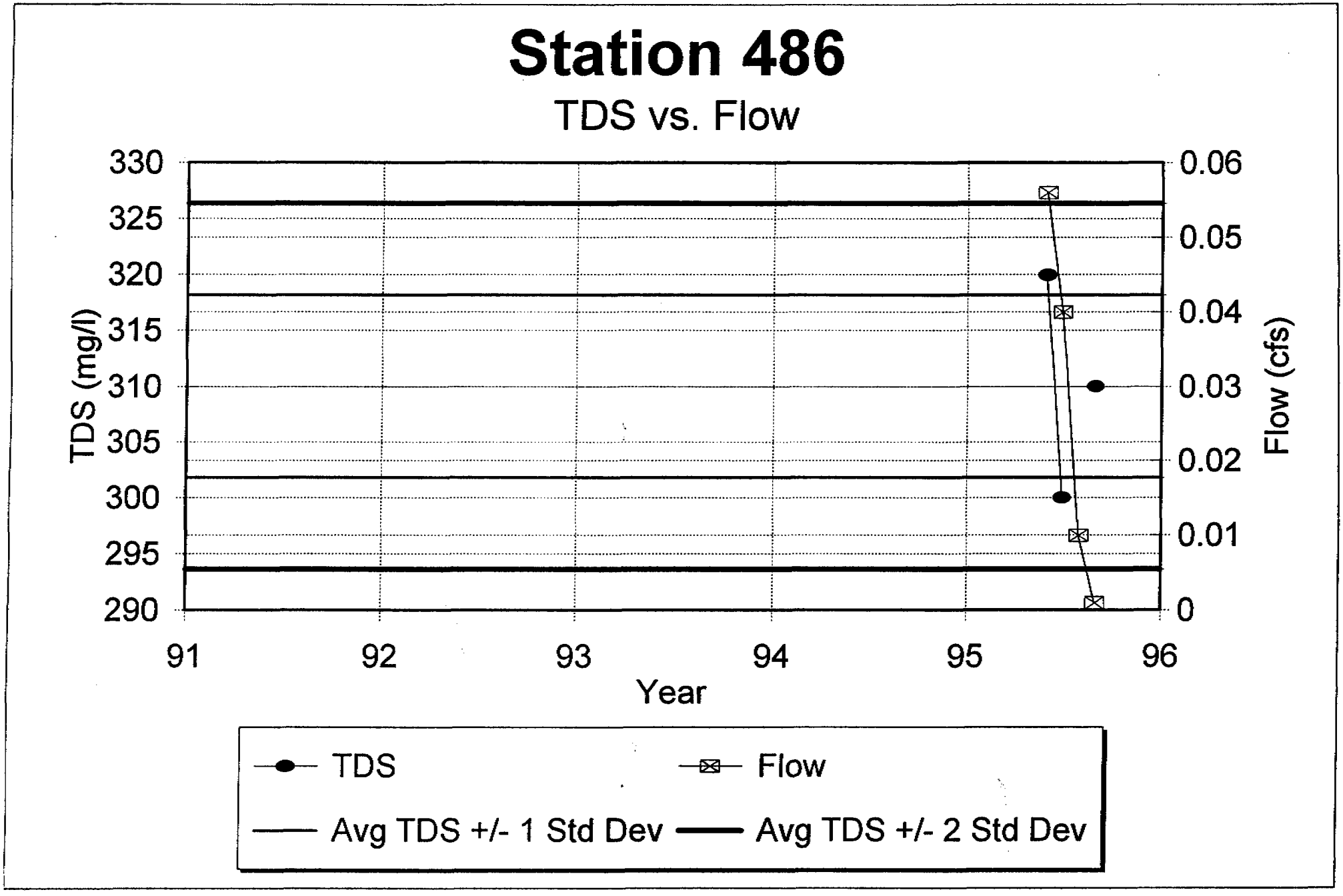
Station: 486 Property: Star Point Location: 1250' S 875' E of NW corn. Sec 25, T15S, R7E Station Type: Sampling Frequency: Quarterly Formation: Elevation: 9100

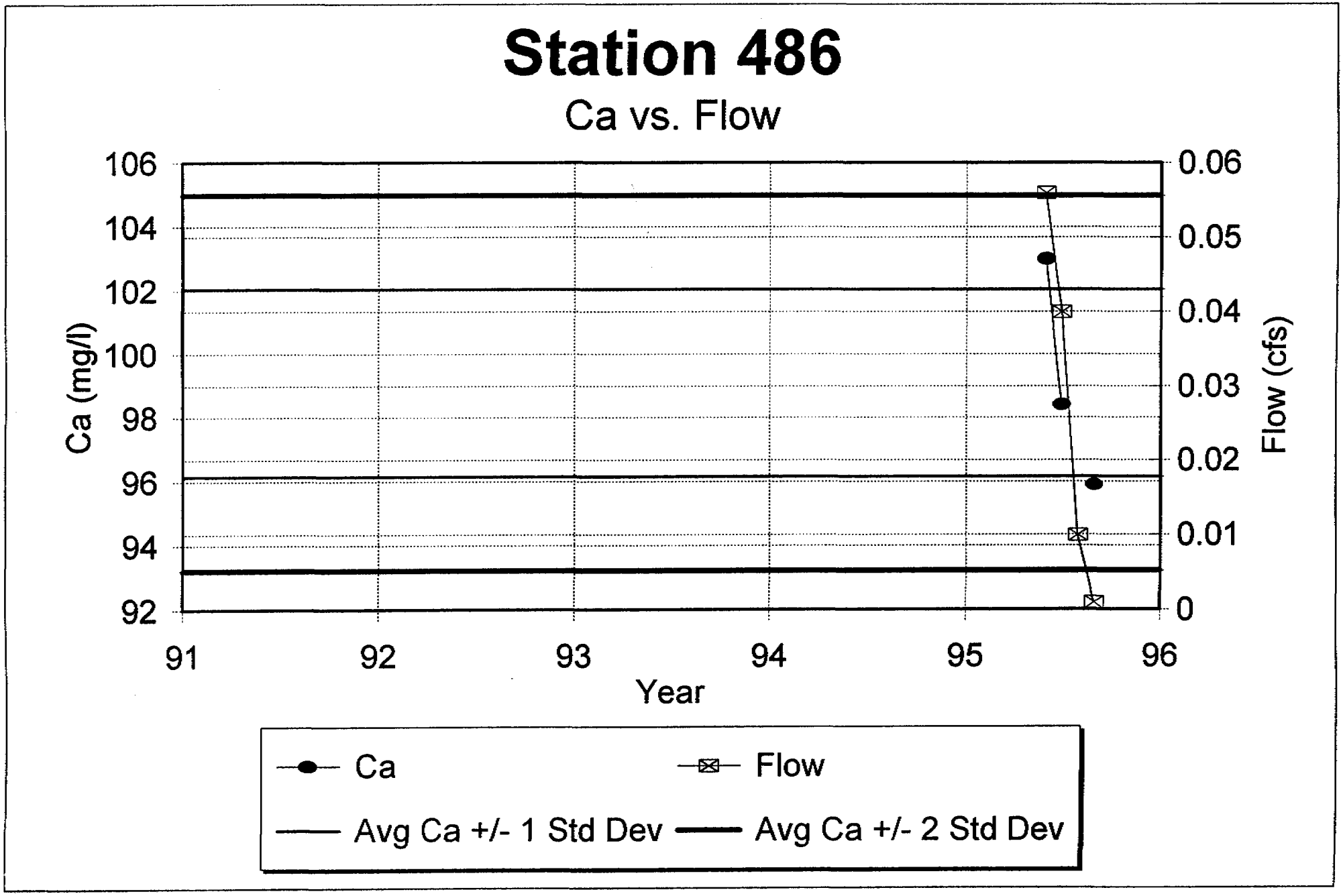
Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Avg. +1 Std. Dev.		0.049	7.3509	2846.8	8.7395	318.16	ERR	ERR	344.69	316.15 <	2	3	25.876	102.04	22.612	0.8366	2.6805	5.7028 <	0.0214 <	0.0744 <	0.009	
Avg. -2 Std. Dev.		-0.018	6.7706	-1472	3.8136	293.67	ERR	ERR	326.63	280.71 <	2	3	-4.751	93.219	21.176	0.3267	2.5391	-2.006 <	0.0072 <	-0.039 <	0.002	
Avg. +2 Std. Dev.		0.0712	7.5444	4286.3	10.381	326.33	ERR	ERR	350.7	327.96 <	2	3	36.085	104.98	23.09	1.0066	2.7276	8.2723 <	0.0261 <	0.1121 <	0.0114	

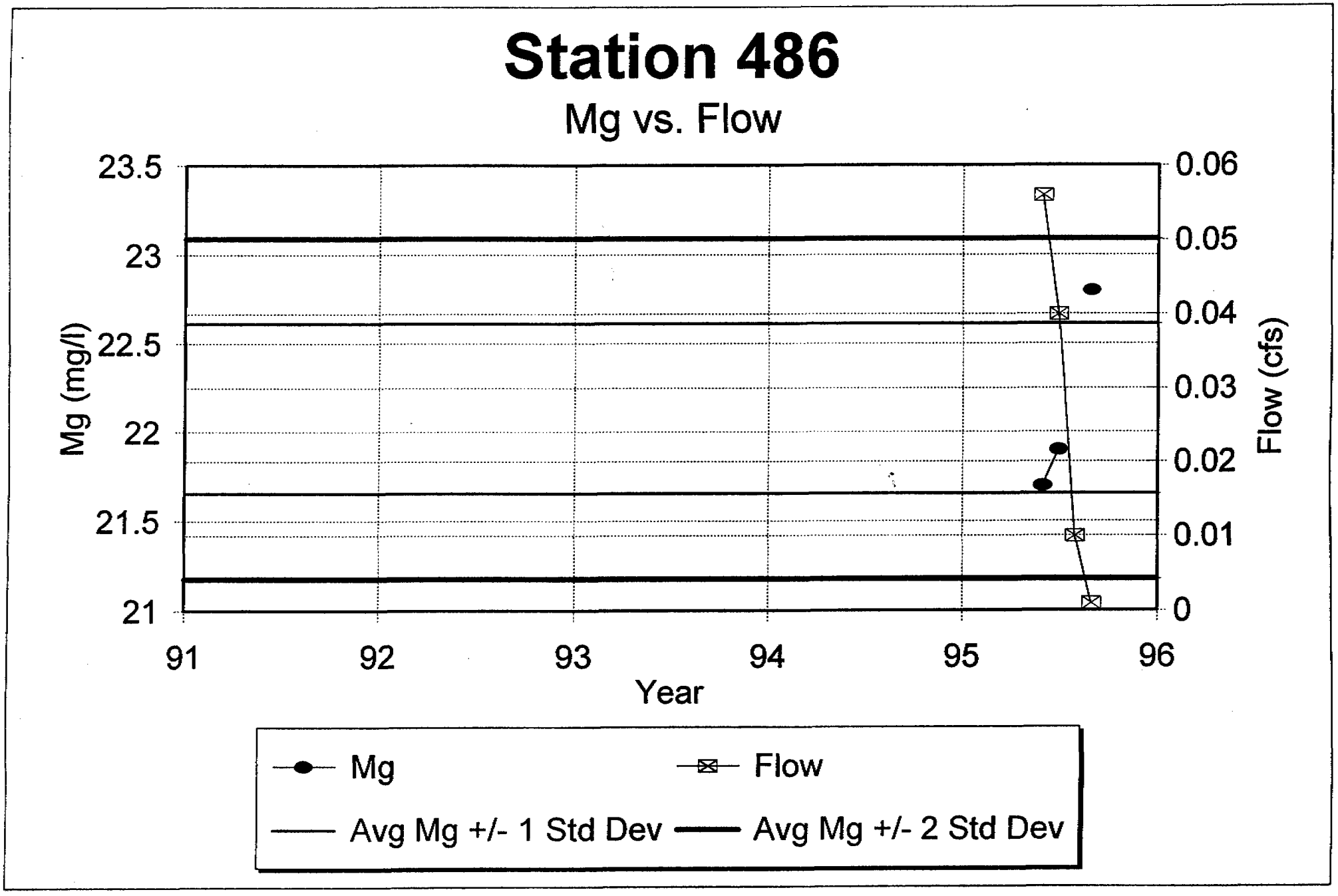
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

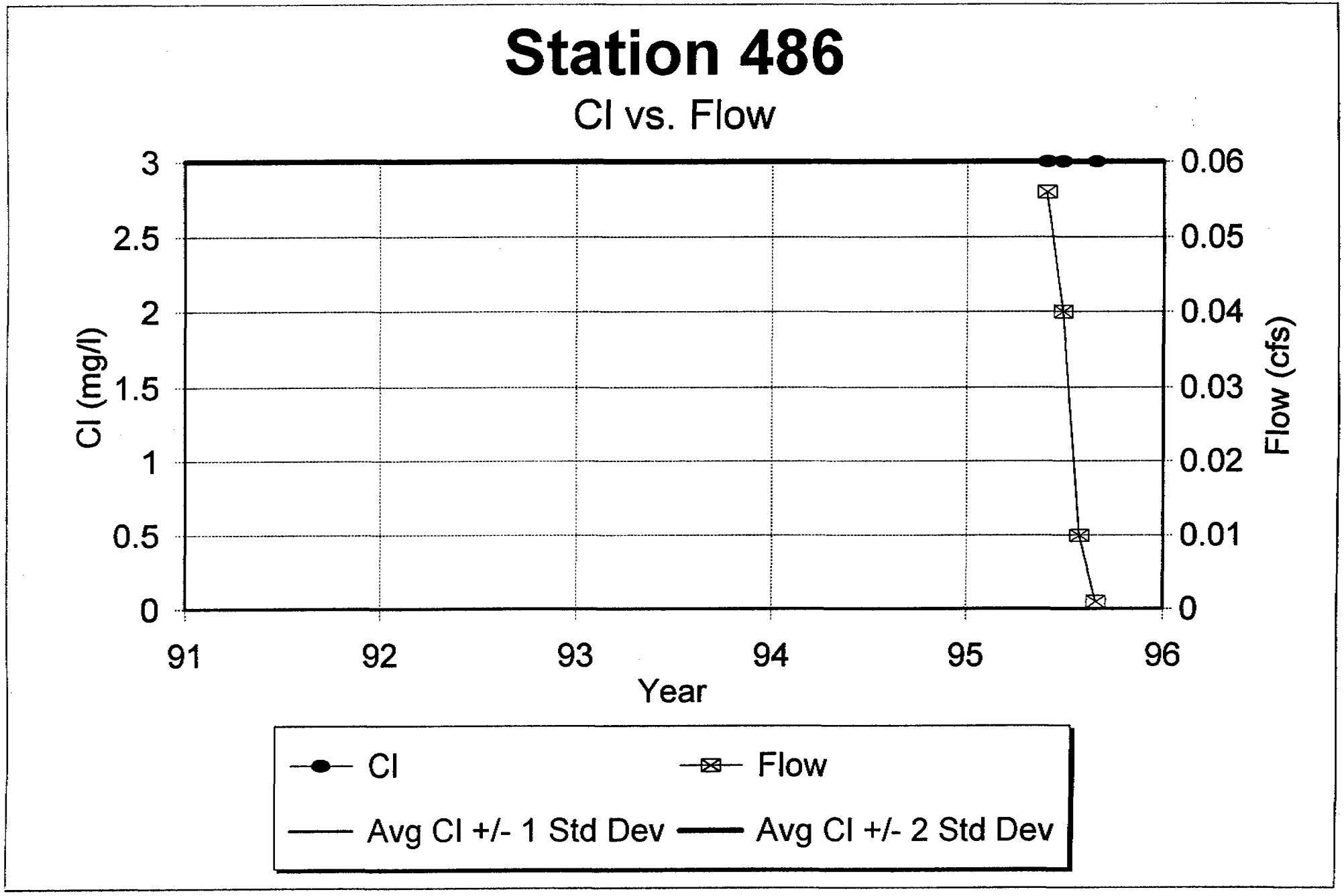

Station 486
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
0.06
0.05
0.04
0.03
0.02
0.01
0
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Year
Monthly Precipitation
Flow

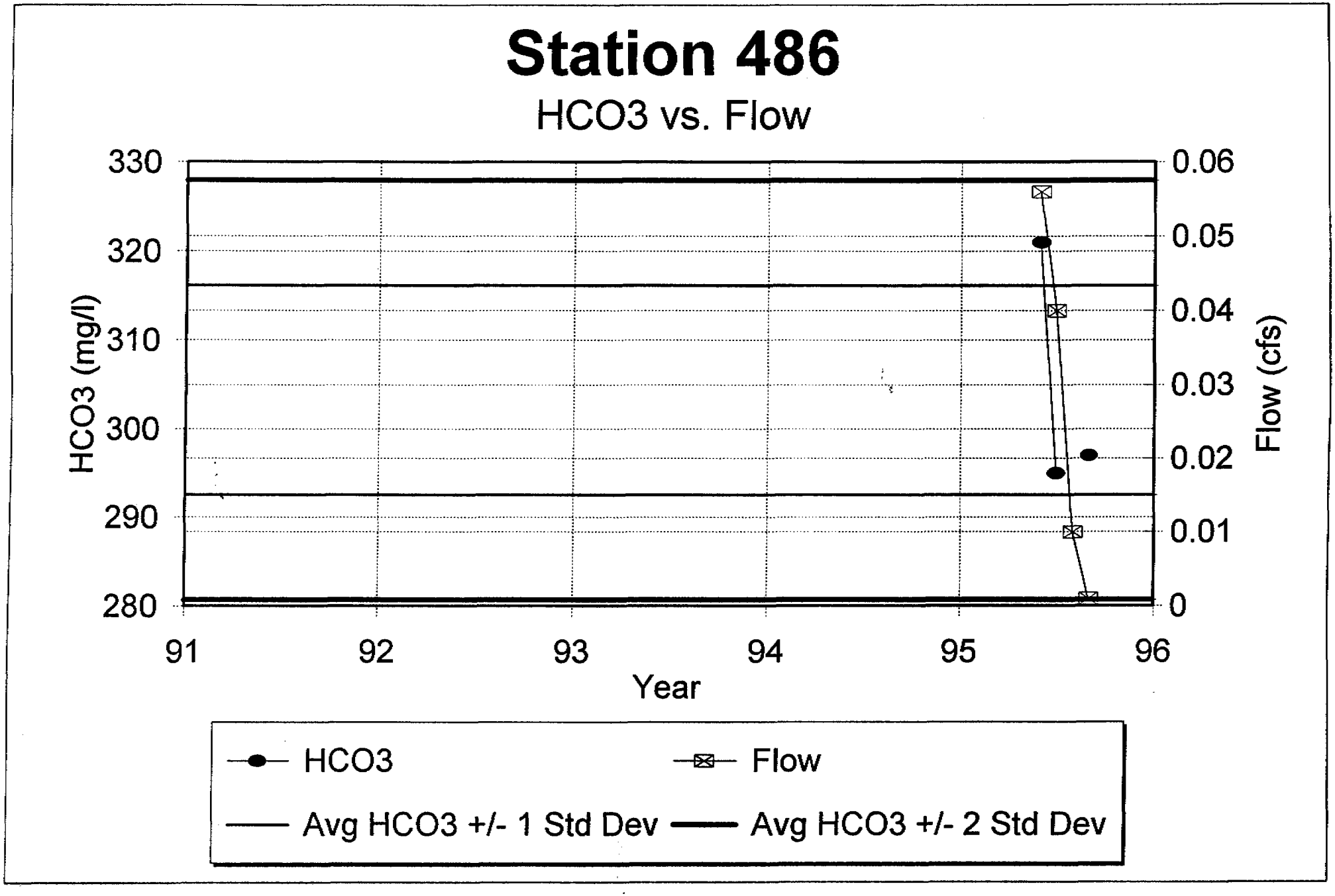

Station 486
pH vs. Flow
7.6
7.4
7.2
7
6.8
6.6
pH (units)
0.06
0.05
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

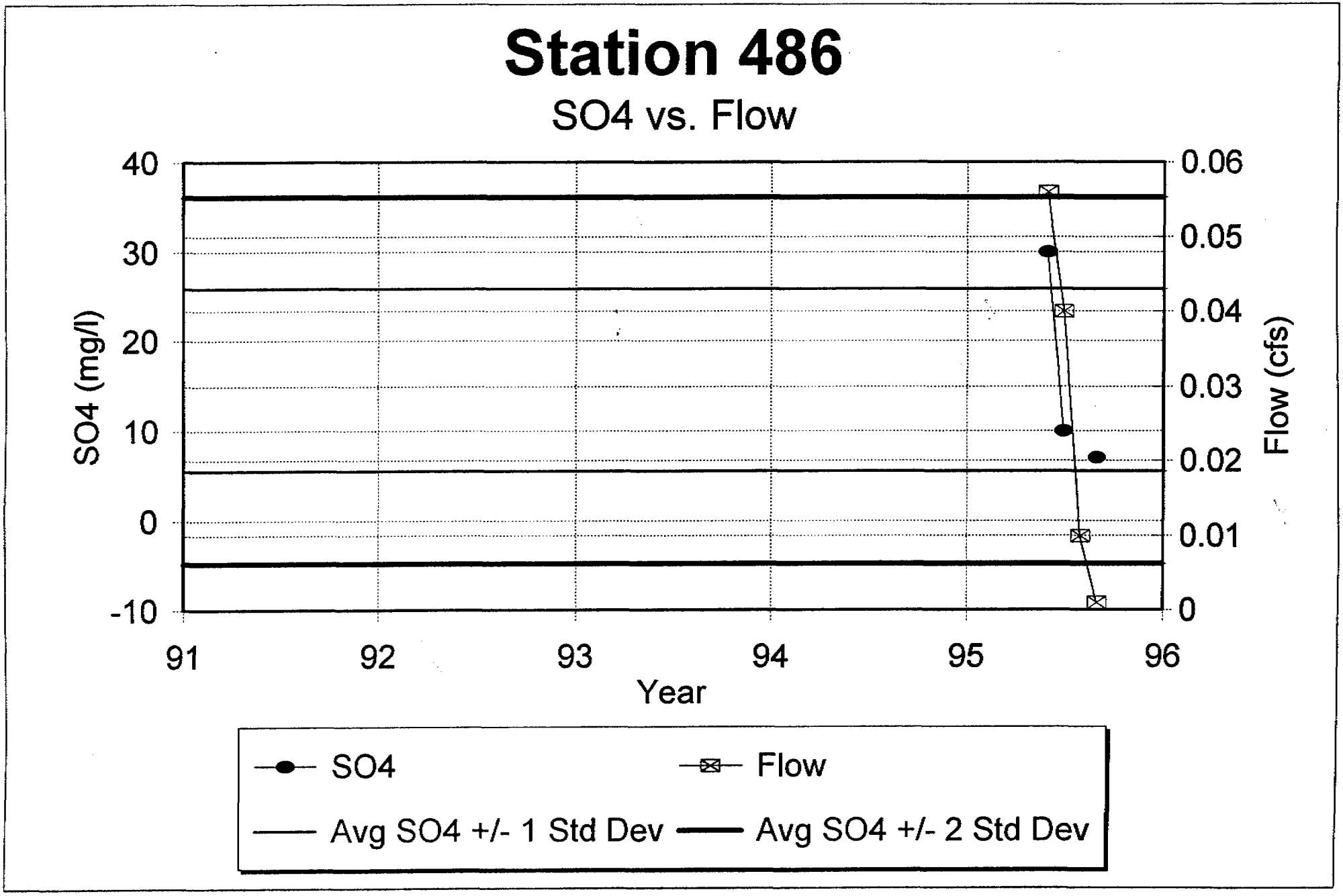

Station 486
TDS vs. Flow
330
325
320
315
310
305
300
295
290
TDS (mg/l)
0.06
0.05
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 486
Ca vs. Flow
106
104
102
100
98
96
94
92
Ca (mg/l)
0.06
0.05
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 486
Mg vs. Flow
23.5
23
22.5
22
21.5
21
Mg (mg/l)
0.06
0.05
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 486
Cl vs. Flow
Cl (mg/l)
3
2.5
2
1.5
1
0.5
0
Flow (cfs)
0.06
0.05
0.04
0.03
0.02
0.01
0
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 486
HCO3 vs. Flow
330
320
310
300
290
280
HCO3 (mg/l)
0.06
0.05
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 486
SO4 vs. Flow
SO4 (mg/l)
40
30
20
10
0
-10
Flow (cfs)
0.06
0.05
0.04
0.03
0.02
0.01
0
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 8, 1996

Station: CVS9 | Property: Star Point | Location: 2500' N 25o' E of SE corn. Sec 3, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: | Elevation: 8960

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93																						
Aug-93																						
Sep-93																						
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94																						
Jul-94																						
Aug-94																						
Sep-94																						
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/21/95	0.001	7.6	646	8.61	370			350	301 <	2	2	60	77.4	38	1.1	5.3	-0.6 <	0.01	0.37	0.011	
Jul-95	07/27/95	0.003	7.8	648	7	370			353	314 <	2	4	37	77.8	38.6	1	5.5	1.1	0.06	0.1 <	0.005	
Aug-95	08/23/95	0.003	7.75	507	11																	
Sep-95	09/27/95	0																				
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		4	3	3	3	2	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	
Minimum		0	7.6	507	7	370	ERR	ERR	350	301 <	2	2	37	77.4	38	1	5.3	-0.6 <	0.01	0.1 <	0.005	
Maximum		0.003	7.8	648	11	370	ERR	ERR	353	314 <	2	4	60	77.8	38.6	1.1	5.5	1.1 <	0.06	0.37 <	0.011	
Average		0.0018	7.7167	600.33	8.87	370	ERR	ERR	351.5	307.5 <	2	3	48.5	77.6	38.3	1.05	5.4	0.25 <	0.035	0.235 <	0.008	
Standard Deviation		0.0013	0.085	66.002	1.6433	0	ERR	ERR	1.5	6.5 <	0	1	11.5	0.2	0.3	0.05	0.1	0.85 <	0.025	0.135 <	0.003	
Avg. -1 Std. Dev.		0.0005	7.6317	534.33	7.2267	370	ERR	ERR	350	301 <	2	2	37	77.4	38	1	5.3	-0.6 <	0.01	0.1 <	0.005	
Avg. +1 Std. Dev.		0.003	7.8017	666.34	10.513	370	ERR	ERR	353	314 <	2	4	60	77.8	38.6	1.1	5.5	1.1 <	0.06	0.37 <	0.011	

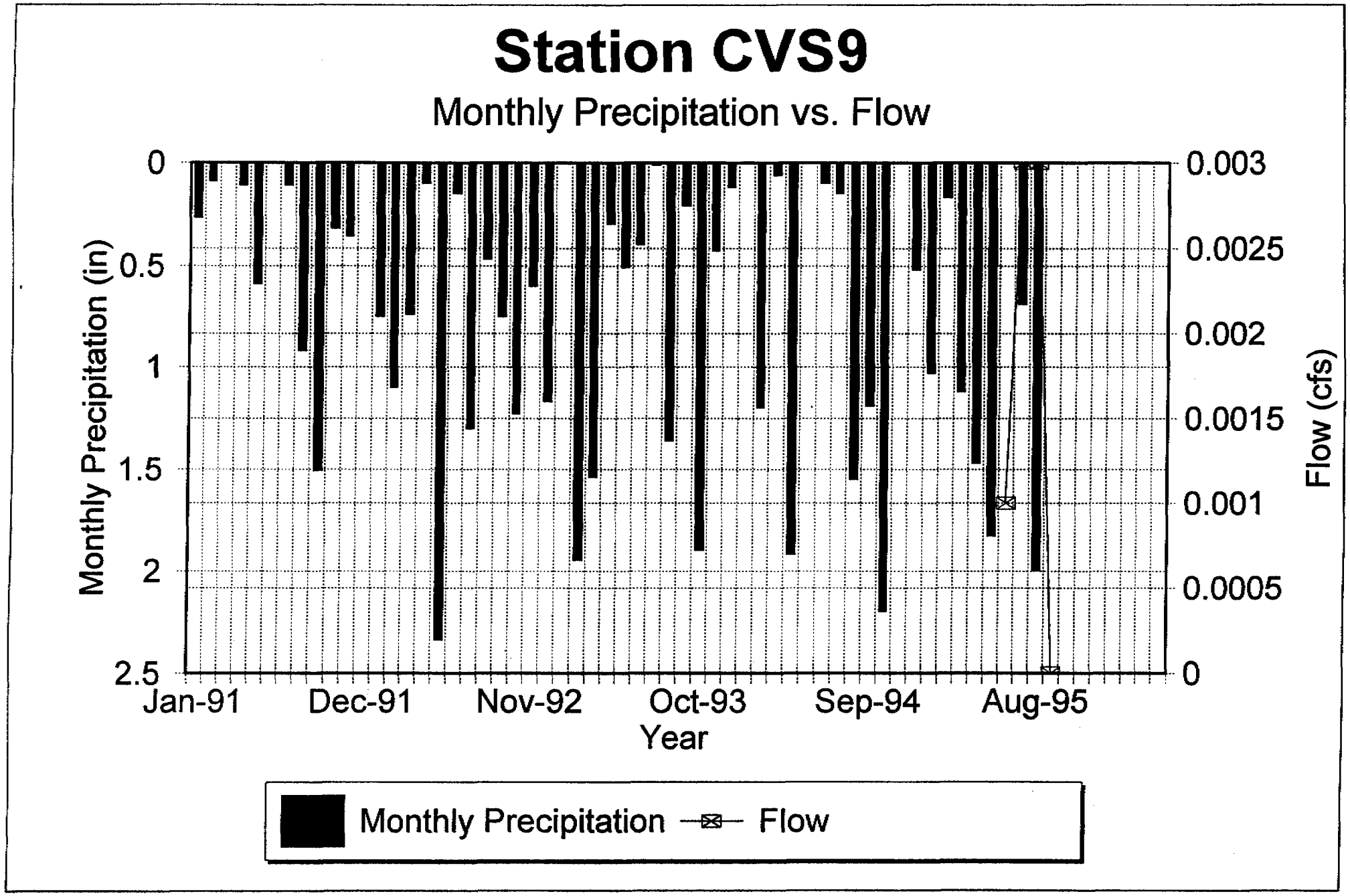
Cyprus Plateau Mining Company - Water Quality Data

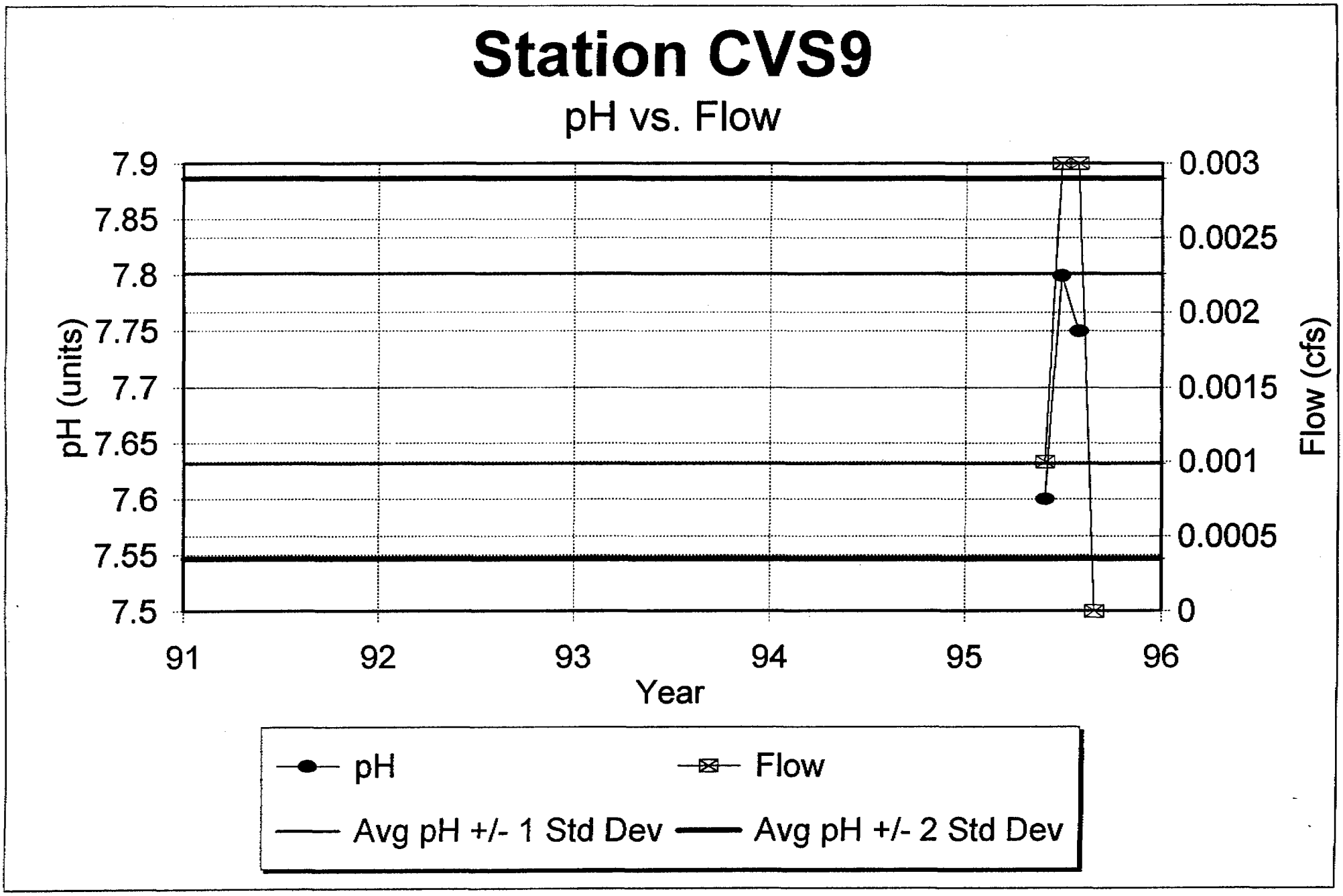
Print Date: May 8, 1996

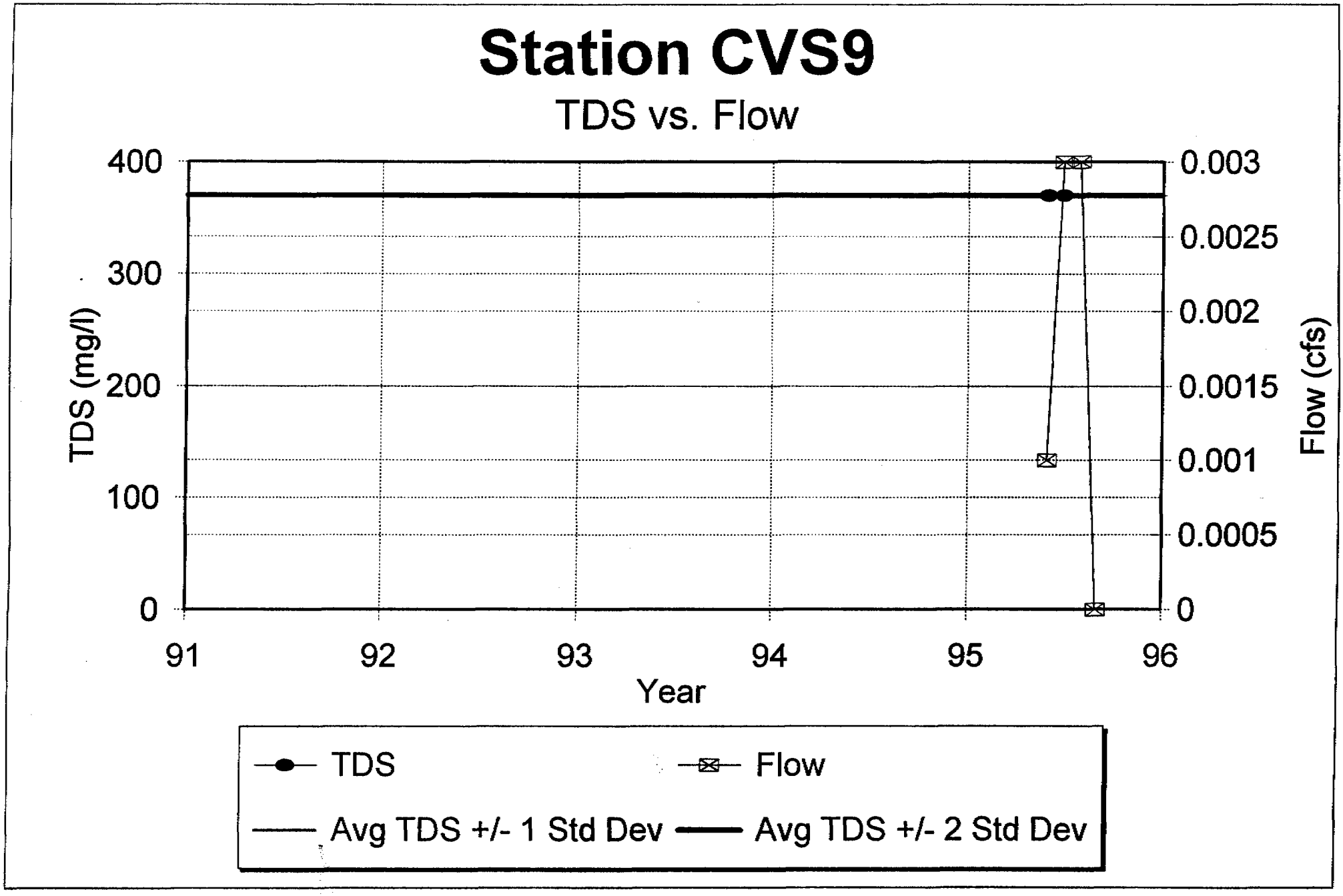
Station: CVS9 | Property: Star Point | Location: 2500' N 25o' E of SE corn. Sec 3, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: | Elevation: 8960

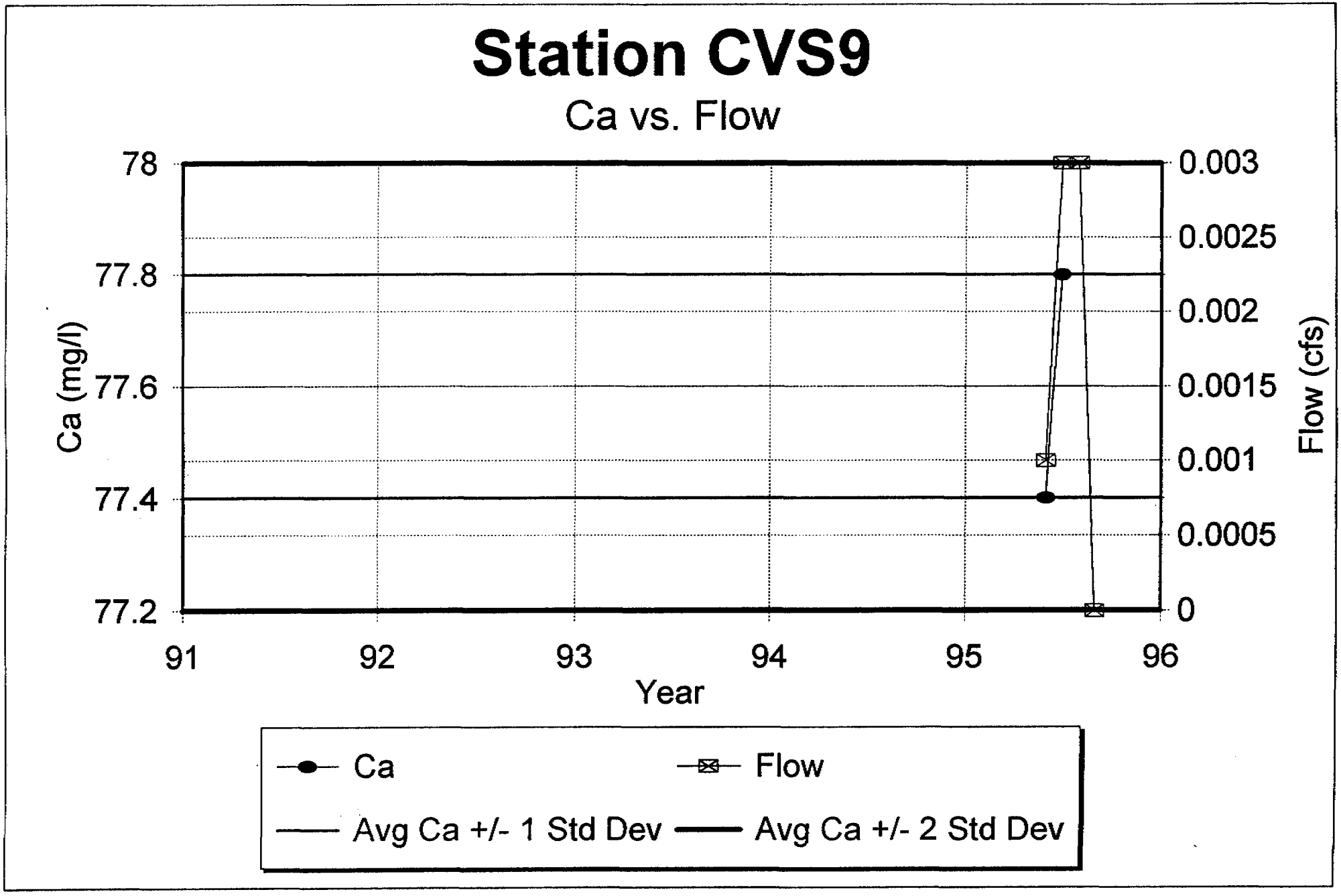
Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Avg. -2 Std. Dev.		-0.001	7.5467	468.33	5.5834	370	ERR	ERR	348.5	294.5 <	2	1	25.5	77.2	37.7	0.95	5.2	-1.45 <	-0.015	-0.035 <	0.002	
Avg. +2 Std. Dev.		0.0043	7.8866	732.34	12.157	370	ERR	ERR	354.5	320.5 <	2	5	71.5	78	38.9	1.15	5.6	1.95 <	0.085	0.505 <	0.014	

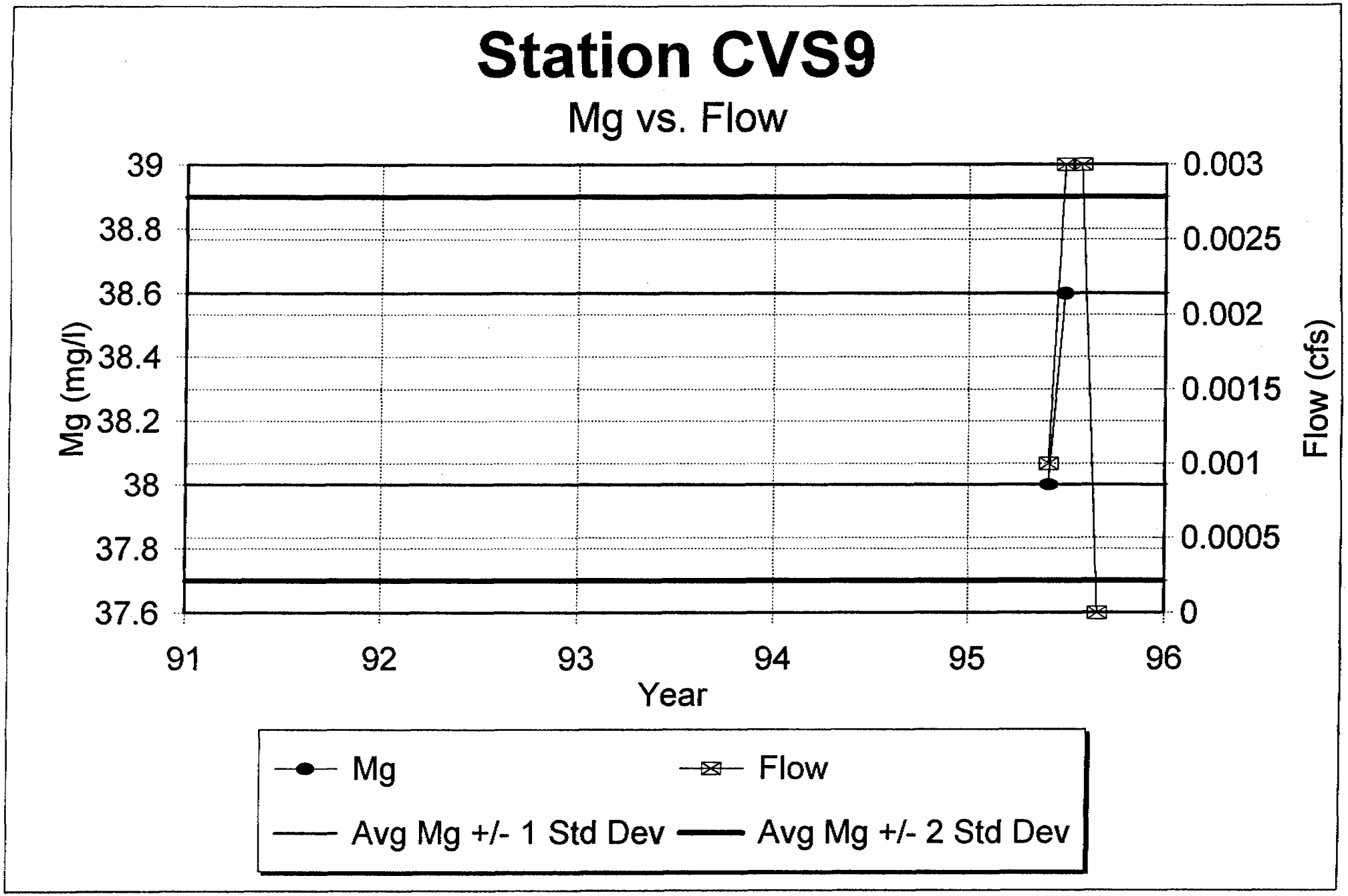
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

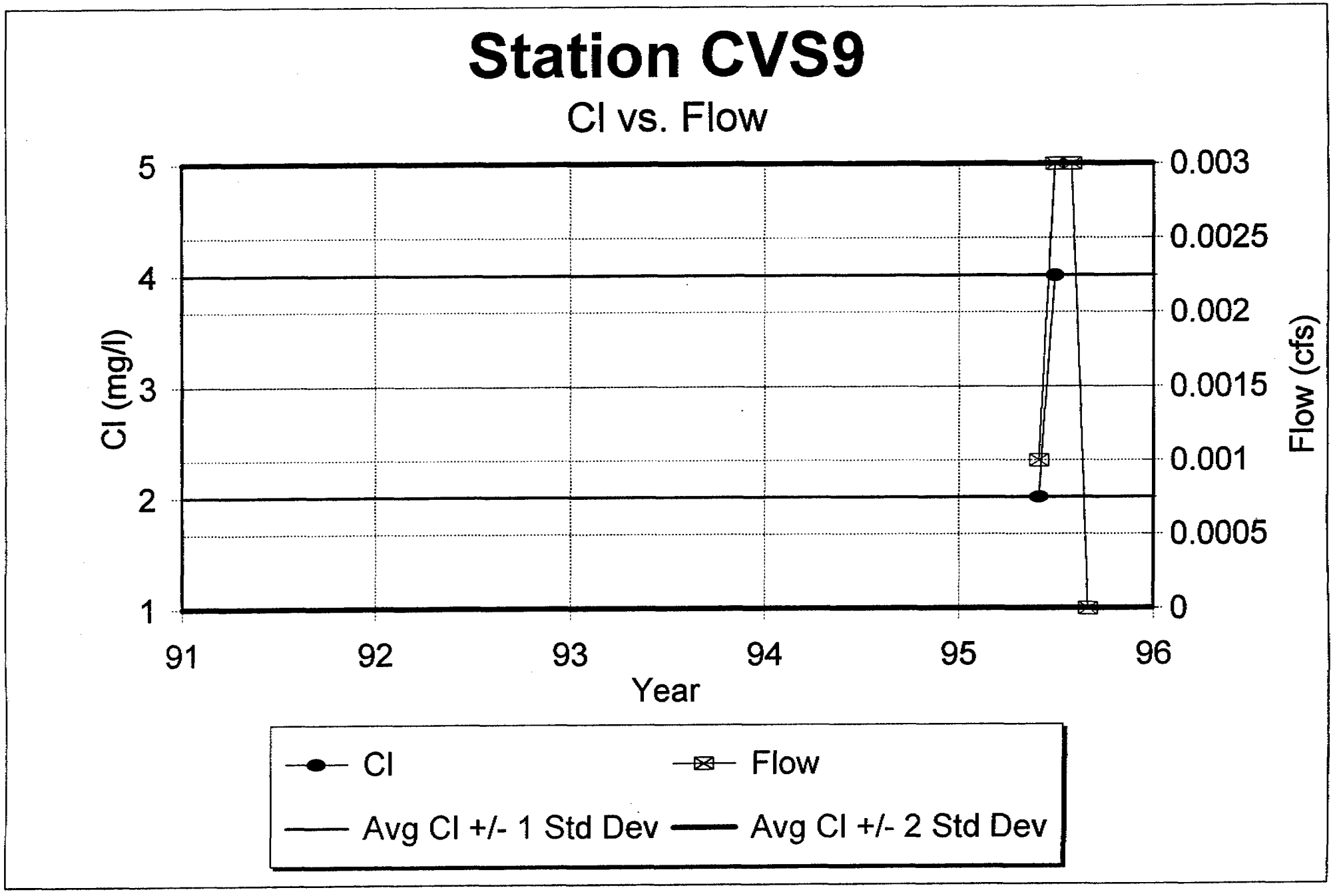

Station CVS9
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Jan-91
Dec-91
Nov-92
Oct-93
Sep-94
Aug-95
Year
Monthly Precipitation
Flow

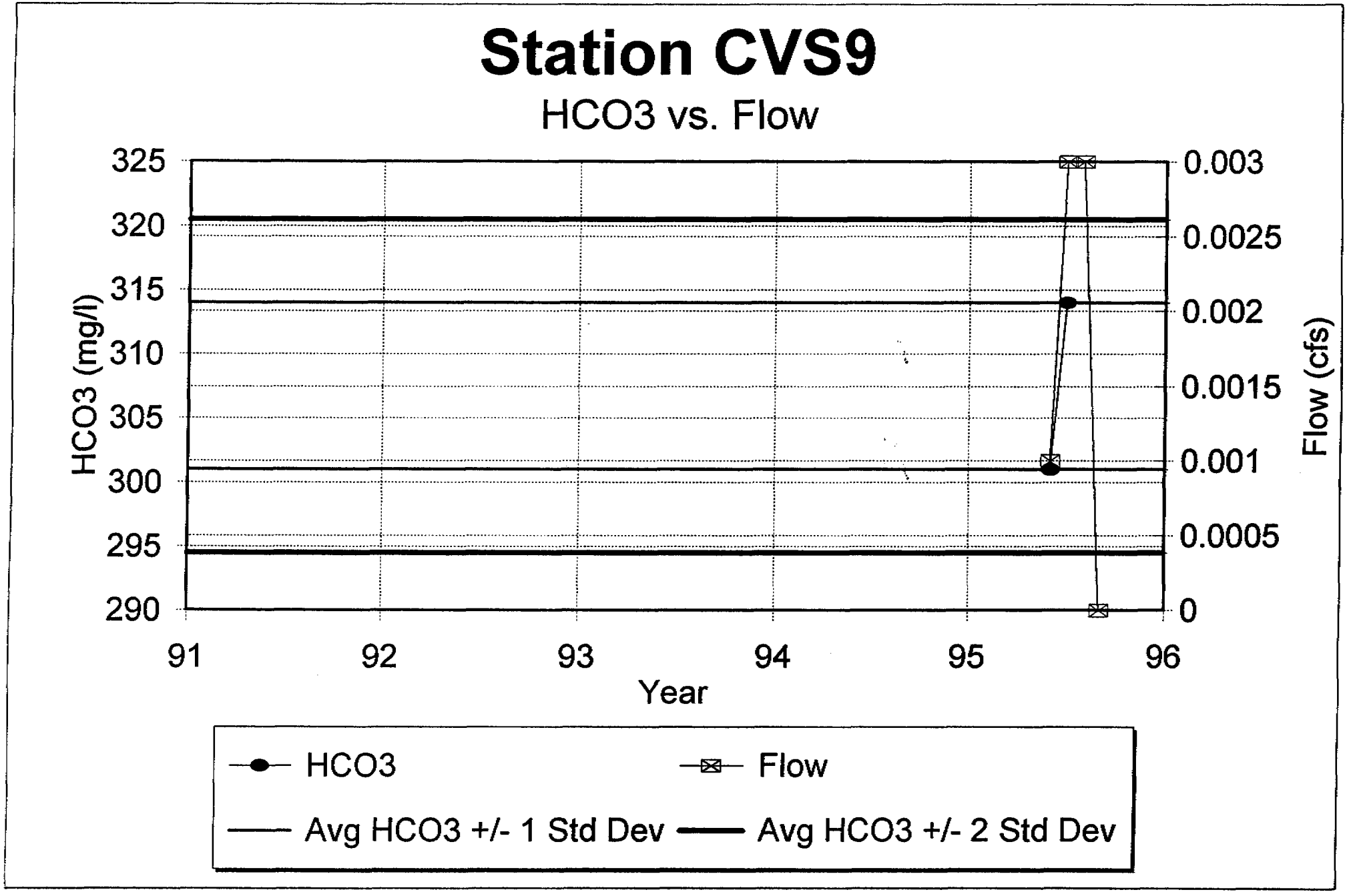

Station CVS9
pH vs. Flow
7.9
7.85
7.8
7.75
7.7
7.65
7.6
7.55
7.5
pH (units)
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

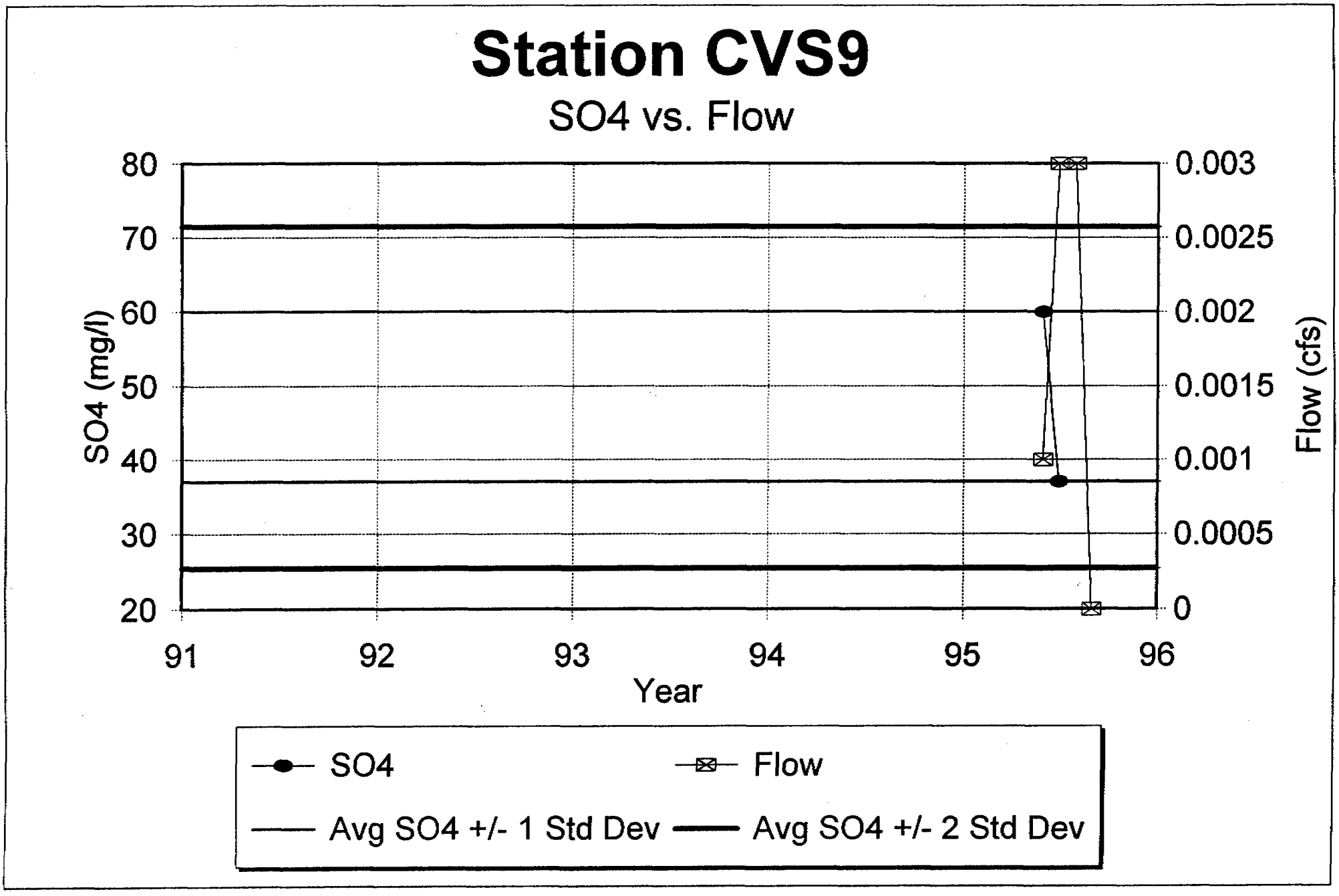

Station CVS9
TDS vs. Flow
400
300
200
100
0
TDS (mg/l)
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Flow (cfs)
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station CVS9
Ca vs. Flow
78
77.8
77.6
77.4
77.2
Ca (mg/l)
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station CVS9
Mg vs. Flow
39
38.8
38.6
38.4
38.2
38
37.8
37.6
Mg (mg/l)
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station CVS9
Cl vs. Flow
Cl (mg/l)
5
4
3
2
1
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Flow (cfs)
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station CVS9
HCO3 vs. Flow
HCO3 (mg/l)
325
320
315
310
305
300
295
290
Flow (cfs)
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station CVS9
SO4 vs. Flow
SO4 (mg/l)
80
70
60
50
40
30
20
Flow (cfs)
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 8, 1996

Station: CVS10 | Property: Star Point | Location: 2250' N 1875' E of SE corn. Sec 3, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: | Elevation: 6710

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91																							
Jul-91																							
Aug-91																							
Sep-91																							
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92																							
Jun-92																							
Jul-92																							
Aug-92																							
Sep-92																							
Oct-92																							
Nov-92																							
Dec-92																							
Jan-93																							
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93																							
Jul-93																							
Aug-93																							
Sep-93																							
Oct-93																							
Nov-93																							
Dec-93																							
Jan-94																							
Feb-94																							
Mar-94																							
Apr-94																							
May-94																							
Jun-94																							
Jul-94																							
Aug-94																							
Sep-94																							
Oct-94																							
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95																							
Mar-95																							
Apr-95																							
May-95																							
Jun-95	06/21/95																						Snow drift covered
Jul-95	07/27/95	0																					
Aug-95	08/23/95	0																					
Sep-95	09/27/95	0																					
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
END DATA																							
Count		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Minimum		0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Maximum		0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Average		0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Standard Deviation		0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Avg. -1 Std. Dev.		0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Avg. +1 Std. Dev.		0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		

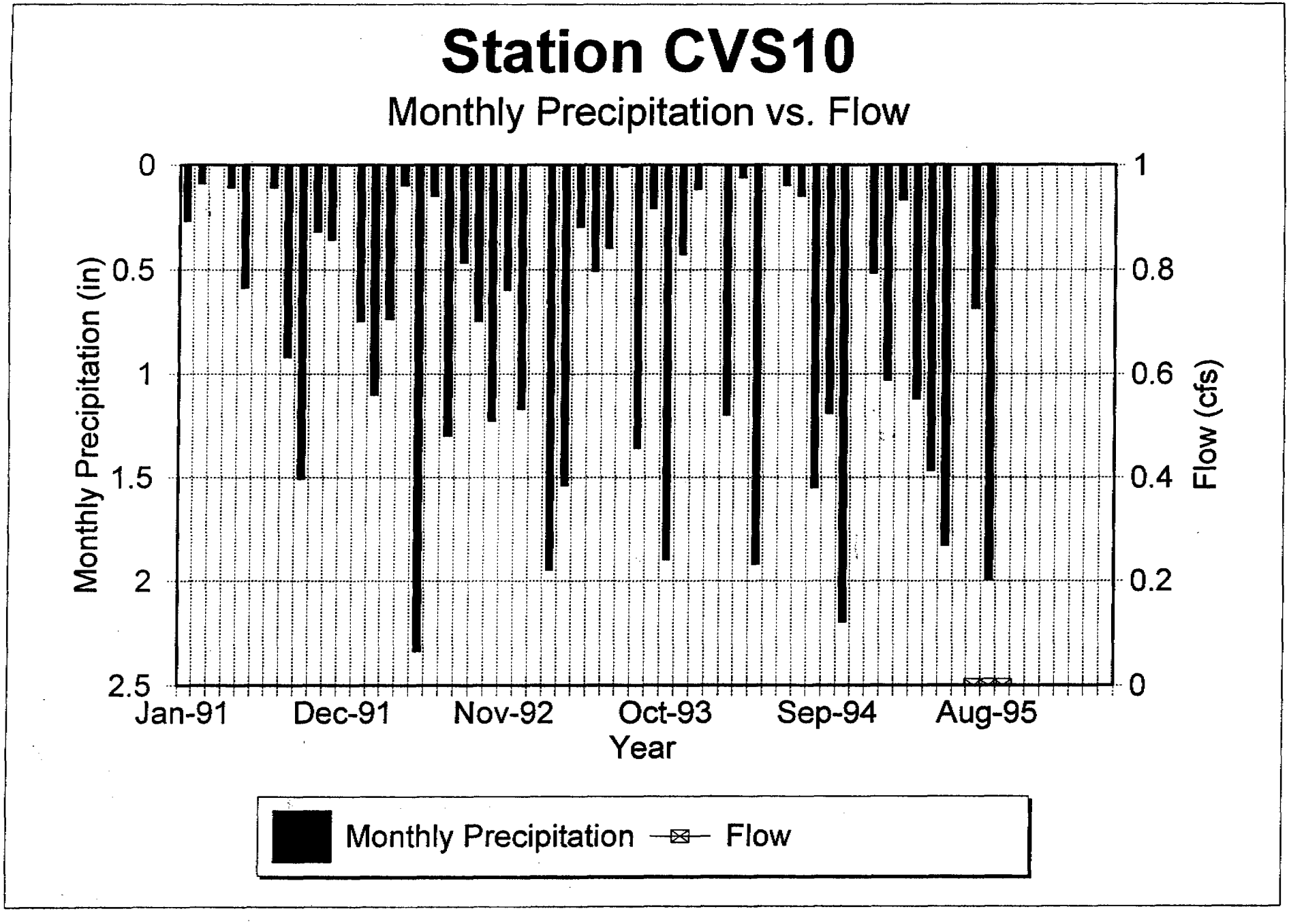
Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 8, 1996

Station: CVS10 | Property: Star Point | Location: 2250' N 1875' E of SE corn. Sec 3, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: | Elevation: 8710

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Avg. -2 Std. Dev.		0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station CVS10
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
Jan-91
Dec-91
Nov-92
Oct-93
Sep-94
Aug-95
Year
Monthly Precipitation
Flow